

"GARDEN and FARM" Incorporated with Green's Fruit Grower, May 15th, 1902.

GREEN'S



Twenty-fourth Year.—No. 2.

ROCHESTER, N. Y., FEBRUARY, 1904.

Monthly, 50 Cents a Year.

Our HEALTH DEPARTMENT

Health Notes by the Editor.

Colic.—For colic, or pain in the stomach, take 1-2 teaspoonful of peppermint essence in half a glass of hot water.

Smothered.—In one section of England and Wales one thousand, five hundred and nine infants were suffocated while in bed with their parents or nurses during the last ten years. In one year one thousand, seven hundred and seventy-four cases were reported by the Billous Medical Journal.

Constipation is the bane of mankind, especially for those who spend most of their time indoors without much exercise. There is no rule which will apply to all persons. Doctors say it is not well to be ever taking cathartics, but some people must take them. Each person should study his case and act accordingly. To purge the bowels often is disastrous, but by testing some mild cathartic, and learning just how much and how often to take it, you can bring about a mild action of the bowels without injury. I have taken for years Welch's sodium phosphate, one teaspoonful each morning in a glass of water. This acts mildly. I have also in place of above, a seditz powder (or half of one) every other morning. There are many similar mild remedies. Schenk's mandrake pills are good for billiousness or serious constipation, but they are too thorough to be taken often. Anything that purges the bowels violently is weakening and should be avoided, except in occasional protracted cases of constipation. Eat apples freely, drink two quarts of water daily. Do not overeat. Eat no pies or cake. Do not exhaust yourself with overwork. Take daily exercise out doors.

Heartburn.—This trouble is usually not caused by any affection of the heart. It is more often caused by sourness of the stomach. One-fourth of a teaspoonful of common cooking soda taken in half a glass of water will usually give immediate relief.

Uses of Salt.—A proper amount of salt is healthful to man. The kidneys will not continue in health without it. But an over supply of salt in the system will in time endanger the kidneys, and cause Bright's disease.

Care of Children's Eyes.—School children may easily injure their eyes by continuous study under unfavorable circumstances. The light may be too strong. It should never fall full upon the eyes. The eyes should be shaded, permitting the light to fall only upon the printed page. In old times people used to read easily by the light of a tallow candle, but they have accustomed their eyes to such bright lights many are not now contented unless they have several electric lights near them when reading, thus there is more danger now of children's eyes being impaired than in old times when milder lights were used.

Care of the Ears.—Many people who are deaf might have preserved their hearing if they had consulted a physician when the trouble first began. Ear-wax often accumulates in the ear caus-

ing a roaring sound, or difficulty of hearing, but this can easily be removed by a physician. Do not attempt such work yourself by probing. Never pour oil or other liquids in the ear. The ear-drum is a sensitive organ, easily injured. Not long ago something was wrong with one of my ears. I could not hear well. My doctor syringed the ear with warm water repeatedly and I was entirely relieved. If I had delayed this for a long time I might have lost my hearing.

Causes of Colds.—Colds are less often caused by exposure than by over eating. When your system is in perfect condition it will be difficult for you to catch cold, but when your system is clogged and your vitality reduced you make take cold without exposure. It is the same with other diseases. When we are strong and vigorous the germs of disease have no effect upon us though the germs may be present in our mouths, as they often are; but the moment we become reduced in vitality then the disease germs have an opportunity to fasten their fangs upon us.

Exposure.—It is marvelous to consider how we can accustom ourselves to exposure so as to endure it without injury. An Esquimaux says he has not really enjoyed himself until recently, when the thermometer was twenty degrees below zero. During the coldest morning he cut a hole in the ice of the pond and leaped in for a bath, receiving as he claimed, much benefit. Two consumptive girls began last summer to sleep out doors all night and continued this sleeping out doors all the present winter. They have regained their health, have increased in weight and express no discomfort from sleeping outdoors on the coldest winter night. When they enter the house and the temperature marks fifty they feel uncomfortably warm. Most people do not expose themselves enough to the rigors of the weather. One reason why we house our domestic animals so closely is to economize food. If animals were exposed to the winds and storms by degrees they may be healthy and happy, but they will require more food.

Coughing.—A lady friend enjoying fairly good health, has coughed for fifteen years, yet she does a full day's work regularly. You should learn to cough gently if you must cough at all. It is possible to encourage coughing until it becomes a permanent habit. When you feel impelled to cough attempt to repress it, but if this is impossible cough as gently as possible, otherwise you may strain sensitive parts.

Deadly Combs.—Most combs are made of celluloid which is somewhat similar to gun cotton. When heated these combs will ignite and burn continuously with a fierce flame. The back of brushes and combs are often made of celluloid. Many women have lost their lives by having celluloid combs in their hair which came in close contact with the flame, or with a heated stove or stovepipe, and thus become ignited. It is difficult to extinguish this flame.

Over Eating.—Some years ago I met an old school friend at a restaurant where I was about to take my dinner. We sat down at the same table. We were each served with a large thick slice of roast beef, in addition to many other dishes of vegetables, etc. I could not

eat half of my slice of beef, but my friend ate all of his and called for an additional slice equally as large. He ate excessively and I marveled at his stomach's capacity. Recently I have learned of the death of my friend. It has occurred to me that possibly he had the habit of over eating. The great mass of mortals eat too much. Our health and vigor does not depend so much upon the quantity of food we eat as upon the amount of food that is assimilated or properly digested. When the stomach is crammed with food the digestive organs have more work to do than they can do well, thus the stomach is clogged and pains and trouble ensue. The moderate eater is likely to be the healthier and longer lived. All that we take into our stomachs in excess of that which is needed assists in clogging and poisoning the system.

Most people eat too much food. There is a foolish notion prevalent that no social gathering can be complete without feasting. The American people are notorious for feasts, often given late at night. These do much to shorten life. If you desire something in place of coffee or tea which are so injurious, use imitation coffee, made of scorched grain, cocoa or chocolate. Most people eat too rapidly. Food carefully chewed will digest in much less time than that swallowed hastily. The mind should be free from care and anxiety while eating.

Doctors often do good work, and their presence is often greatly to be desired, but in many instances they are called in when it is unnecessary. You can tell whether your child or friend is very sick by examining the pulse and the temperature. The average pulse is 70 to 80. If you find it 90 or above, in cases of ailment, you should call a doctor. If there is much fever, or serious chills, you should call a physician. These are both unfavorable symptoms, but when there is no fever or chills or excessively rapid pulse, there cannot be any serious disorder. A good doctor is a true friend to any family, but there are physicians who deceive, and others whose main object is to drain the purses of their patients. Doctors do not like to be called out at night; they are allowed double pay for night calls.

Surgery Safeguarded by Antiseptics.—To Joseph Lister belongs the honor of the discovery of antiseptics as applied in surgery. Before Lister operations on the abdominal cavity were attended by a mortality of fifty per cent.; since then this has been reduced to about 5 per cent. Before Lister, operations involving the opening of the skull were almost invariably fatal; since then operations on and around the brain have a mortality quite comparable to that of abdominal surgery. Thirty years ago the removal of a tumor from the stomach or intestine, or the opening of an abscess in the brain would not have been thought of; the disease was simply allowed to run its course till death. Today these are common surgical operations, and they have preserved thousands of useful lives.

To Stop Bleeding.—In the case of a severe cut from a knife or razor try the immediate use of finely powdered rice or flour to the wound; this has been a great success in almost stopping the flow of blood from a severe cut.

Health Suggestions.

Neuralgia in the Face.—For pain in the face and teeth take two teaspoonfuls of flour, the same quantity of grated ginger, and mix them well together with sufficient alcohol to make a thin paste. Spread this on a linen rag and apply it on the part affected on going to bed, wrapping a piece of flannel over all, and it will effect a cure.

Tonic Value of Apples.—Everybody knows the tonic value of apples upon the system. Of all our ordinary fruits, apples, if eaten regularly, are most generally beneficial. Indeed, an old adage says: "An apple a day drives the doctor away." And many a man or woman noted for his or her good health ascribes it to the plentiful eating of apples.

Hair Tonic or Wash.—A good hair tonic is made as follows: Bay rum, 4 ounces; rain water, 4 ounces; quinine, 20 grains. This is one of the best hair tonics and restoratives for general daily use known. It promotes vigorous growth, and keeps the hair soft and glossy. If the hair is very light, falls out and breaks, the quinine wash should be applied every night before retiring.

Look After the Quiet Child.—A child who is always quiet should be watched carefully, for it is quite an unnatural state of affairs, and shows that something is wrong. Those who go much among the schools of the very poor know that it often means lassitude from want of proper nourishment. If it occurs in the children of the better off it shows that vitality is low, and that for some reason or another the food is not giving the strength it should do.

A Simple Home Remedy.—Boric acid is a simple home remedy. Mixed with vaseline, it forms one of the cheapest and safest ointments for cuts and bruises. Boric acid dusted into the sleeves of dresses which have been worn when exercising removes all disagreeable traces of perspiration. Handkerchiefs, which have been used when colds and influenza are prevalent, should be sprinkled with boric acid powder, or, better still, should be steeped in a strong solution of it and water before being sent to the wash.

Giving Medicine.—Bear this in mind when you give medicine: Read the label on the bottle; shake the bottle before you pour it out; even if the bottle is marked, it is safer to measure the dose in a properly marked glass; a medicine glass should be in every house; medicine ordered three times a day should be given at 10 a. m., 2 p. m., and 6 p. m.; if the direction is that it is to be taken every four hours, give it at 3 a. m., 12 noon, 4 p. m., and 8 p. m.; do not give medicine in the night unless the doctor has told you distinctly to do so; iron is always best taken after food; quinine should be taken before food; hot milk and coffee disguise the taste of cod liver oil better than anything else. Pour a little coffee and milk into the cup first, then the oil, then more coffee, and one will hardly know he has taken the medicine.

If it had been now, it might have been worse. Has God denied thee the comforts of this life? He might have denied thee Christ, peace and pardon also; and then thy case had been woeful indeed.—John Flavel.

The Elberta.

Last summer when we parted, sweet Elberta!
You looked quite fair enough to eat, Elberta!
Yet this for absence may atone,
Since last we met you've fairer grown;
Yes, though you have a heart of stone,
Elberta, you're a peach!

Your cheeks reflect the sunset glow, Elberta!
Your rounded outlines allure me so, Elberta!
Your breath is sweet as summer dew;
Your life blood richly flowing through
Imparts a matchless charm to you.
Elberta, you're a peach!
—"American Florist."

Monahan's Adventures—No. 3.

HIS EXPERIENCE ON A NEW FARM

Written by C. F. White for Green's Fruit Grower.

Monahan disposed of his home and of all his business interests to his partner and on January 4th he purchased a 640 acre farm in Southern Oklahoma. He immediately telegraphed for his family to come post haste to the land of sunshine. January 8th Monahan took possession, moved his furniture and family into the roomy house, and became a full-fledged farmer. His first two days were spent blistering his knees and mashing his fingers putting down carpets. Then one day was spent skirmishing among the neighbors, buying chickens. Monahan was a poultry fancier, and was going to raise fine chickens to such an extent that he would soon be known as the king of the cock pit.

The next two days were spent in doing chores, and not seeing a soul besides his family Monahan became melancholy. He was getting lonesome. About 4 o'clock on the afternoon of the 13th, Monahan saw a cloud of dust rise on the horizon. He held his breath by spells for fifteen minutes. Finally a good looking young man drove up, and introduced himself as Willis Schaffer, a nursery salesman. He was a good talker, and Monahan was so glad to see him that in less than one hour Monahan had purchased \$382.67 worth of apple, peach, plum, cherry, pear and crab trees. Schaffer was forced to stay for supper, and Monahan's oldest daughter got sweet on him and induced her father to buy \$28.35 worth of rose bushes. Schaffer was invited to stay all night, and as business was good he did not decline the invitation. Next morning Mrs. Monahan showed her hand, and the result was that Schaffer booked an order for \$36.70 worth of vines and shrubbery.

Monahan insisted that Schaffer go over the farm with him and give an expert opinion on its value. The opinion and value both being satisfactory, Monahan showed his appreciation by purchasing \$48.16 worth of gooseberry, currant, blackberry and raspberry bushes. This concluded Monahan's purchases, as Schaffer did not handle peanut bushes.

Next day an agent with a patent churn appeared upon the scene, and Monahan purchased three churns and the county right.

The churn agent had hardly left the premises when a windmill agent drove up. He was tall and wore burnside whiskers. He failed to make a sale, as Monahan always said he never liked men who wore two mustaches on their jaw.

Monahan was sitting on the front porch watching the windmill agent disappear down the road, when he noticed one of his hens acting queerly. He captured the hen, cut her head off, and ordered Mrs. Monahan to prepare chicken pot pie for supper. She began to dress the chicken, and was surprised to find a large opal in its craw. The opal was one inch in diameter and a beauty. Monahan said he would have it set into a shirt bosom stud. Next day he drove thirteen miles to town, and ordered the jeweler to set the opal. The jeweler asked Monahan if he was going to wear the stud himself. Monahan said he wasn't going to put it on a cow bell. The jeweler said he wouldn't wear it for \$100 a day. Monahan said he defied the laws of superstition, and, when set, placed the stud in his shirt bosom and started for home. It was just getting dark when he reached a creek about three miles from his farm. The horse shied at a colored boy on the bridge, and jumped into the creek, taking Monahan and the rig with him. The horse was drowned, and Monahan walked home saying the Lord's prayer backwards at every rod. He reached home about midnight, tired and hungry. He swore Mrs. Monahan had hired the colored boy to stand on the bridge and scare his horse. He ate seven pieces of corn-bread, and went to bed. He kept his wife awake all night. At four-minute intervals he would cry out, "I defy the laws of superstition."

Next morning a seed agent appeared and booked an order for \$16.33, which comprised several varieties of vegetable seed and one bushel of Georgia Rattle-



Many subscribers of Green's Fruit Grower live in homes like the above, located in villages and cities. If you will study the arrangement of the vines, shrubs, and trees, you may be helped in your planting.

snake watermelon seed. Monahan said he was going to change the name of the famous watermelon to Oklahoma Rattlesnake watermelon in less than a year. Mrs. Monahan and the girls put in their 2 cents' worth, and the seed agent booked an order, for \$3.10 worth of flower seeds.

The next caller was an insurance agent. Monahan, longing for excitement, picked a fight out of him, and the result was a general knockdown and drag out. Mrs. Monahan and the children rescued Monahan, who then went before a looking glass and took an inventory of himself. His only injury was a black eye. He felt elated to think that he had drawn first blood, as the insurance agent had retired from the field of battle with a bloody nose.

Early that night Monahan's barn burned down. He swore the insurance agent was getting revenge. Monahan had the nightmare all night, and at five-minute intervals would cry out, "I defy the laws of superstition."

Next day he and 'Rastus', an old negro employee, began painting the house. The job was finished in three days, and as the last ladder was being taken down it fell and broke Monahan's left arm. All that night he howled, "I defy the laws of superstition."

Soon after the nurseryman arrived with the nursery goods, and Monahan worked like a Turk for two days, planting trees, shrubbery, rose bushes, etc., and the result of his labor was in evidence. The old neglected place took on the appearance of a garden of Eden. Monahan said the place looked like paradise, and he would not take double

his investment for the plantation (he thought plantation sounded bigger than farm), and to show his appreciation of the transformation he presented Schaffer with the opal stud.

The next week was spent in building a new barn, which was dedicated with a dance, which was a howling success. Schaffer was there, and, with Monahan's oldest daughter, led the grand march. At 12 o'clock there were 406 couples present and Monahan had only one keg of beer, and he was sitting on it. Some of the boys put up a job on him and started a mock fight. Monahan rushed over to separate the participants, and the keg of beer disappeared. Monahan lost a silver dollar in the shuffle. 'Rastus' was looking for it. Monahan lit a match and accidentally set 'Rastus' whiskers on fire, and the guests all went home feeling that they had got their money's worth.

Thus ended Monahan's first month's experience as a farmer.

Horses Learn.—"The man who does not think that horses have good, hard sense simply does not study them," remarked a well known liveryman, to a Post man, says Washington Post. "I believe they are the most peculiar as well as the best natured of all animals. I have dealt in and handled horses for many years, and the more I see of them the more I am impressed with their intelligence. Sometimes their intelligence surpasses anything one would expect from a dumb animal and would scarcely be believed by one not acquainted with their habits and mental—I suppose mental is proper—capacity."

Take Hold and Lift

Did you accept our suggestion? Did you help us lift our load? That is, did you renew your subscription to Green's Fruit Grower or did you put off that important work? I am waiting here in suspense asking the question, "Are you going to take hold and lift?"

Charles A. Green.

Horse History.—The American Museum of National History has charted the ancestry of the horse back to the time when it was no larger than a cat, with four complete toes on each forefoot and three on each hindfoot. The hoofs of the horse to-day are but the middle claws, the superfluous ones having disappeared in evolution. The text matter of a pamphlet issued by the museum says in part: "In the series of ancestors of the horse we can trace every step in the evolution of those marked peculiarities of teeth and feet which distinguished the modern horse from an ancestor which so little suggests the horse that when the remains were first found, forty years ago, no relationship whatever was suspected."

Good Roads.—Colonel Killebrew considered the road question the most important one before the American public. Leading the world in everything else, the United States was last in good roads. He argued that if the \$480,000,000 which he claimed had been practically wasted on rivers and harbors had been expended on roads the country would be much better off. Most state road laws are farces and of the \$110,000,000 wasted annually Tennessee wastes nearly \$4,000,000. Colonel Killebrew advocated government aid in building roads.

A farmer who had engaged the services of a son of the Emerald Isle sent him out one morning to harrow a piece of ground. He had not worked long before nearly all the teeth came out of the harrow. Presently the farmer went out into the field to take note of the man's progress and asked him if he liked the work.

"Oh," he replied, "it goes a bit smoother since the pegs have come out."

"Why do you think she is so very much in love with him?"

"Because she let him hang the mistletoe over her favorite chair."—Chicago Post.

The famous Maelstrom whirlpool is four geographical miles in diameter.



MY PIGS AT 5 MONTHS OF AGE WEIGH 250 LBS.

DELL ROY, O., Sept. 24, 1903.
GENTLEMEN:—I am showing a herd of Berkshire hogs that I have fed "International Stock Food" from the time they came, and I am a winner in the show ring. I have pigs that came in April that weigh 250 lbs. each. I sold one pig just nine weeks old that weighed 85 lbs. Its mother was fed "International Stock Food" three times per day after the pigs were four days old. I fed her "International Stock Food" six weeks before she had her pigs.
I have a herd of short-horn cattle that I fed "International Stock Food" to all the year around, and it paid me big. I fed it to my ewes and lambs with the best results. To make a long story short, I can't nor won't be without it. I recommend "International Stock Food" to all breeders of fine stock.
Very respectfully, CLARK GAMBLE.

We have hundreds of thousands of similar testimonials and will pay you \$1000 Cash to Prove That They Are Not Genuine and Unreliable.

BEWARE OF CHEAP IMITATIONS AND SUBSTITUTES. WRITE US ABOUT "INTERNATIONAL STOCK FOOD."

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BOOK CONTAINS 183 LARGE ENGRAVINGS OF HORSES, CATTLE, SHEEP, POULTRY, ETC.

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<p>WE WILL PAY YOU \$1,000 IN CASH</p> <p>If We Ever Refuse to Refund Money on Our Positive "Cash Guarantee," Printed on Every Label of Each of These Preparations.</p>			
<p>International Stock Food.....</p> <p>International Cattle Cure.....</p> <p>International Hog Cure.....</p> <p>International Sheep Ointment.....</p> <p>International Horse Killer.....</p> <p>for all kinds of poultry.....</p> <p>Our preparations are sold on a "Spot Cash Guarantee" by over 100,000 Dealers Throughout The World. We will be glad to Refund Your Money, or per guarantee printed on every label, if any of them ever fail and we agree to accept your plain, written statement and you are to be sure and also the sole judge of results.</p>	<p>International Poultry Food.....</p> <p>Remarkable egg producer and guaranteed to insure good health and very rapid growth</p> <p>for all kinds of poultry.....</p>	<p>International Horse Soap.....</p> <p>International Worm Powder.....</p> <p>International Horse Cure.....</p> <p>International Phenol-Chloro Disinfectant, Germicide.....</p> <p>for all kinds of poultry.....</p>	<p>Silver Fine Hoofing Oil.....</p> <p>Wonderful quick cure for Barbs-wire Cuts, etc.</p> <p>International Foot Remedy.....</p> <p>International Compound Absorbent.....</p> <p>Cures Cuts and Sprains while your horse works.</p>

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American Agricultural Chemical Co.

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<p>75c for Babcock Corn Planter</p>  <p>\$10 One-Tone Corn, Leaf and Grain Planter Drops in hills and fills 12 rows a day. Fertilizer carrier.</p> <p>\$28-75 Calumet chisel plow with automatic reel and 80 rods vine.</p>	<p>\$5.00</p>  <p>Steel lever harrow; cuts 10 ft; 80 teeth; two sections.</p>	<p>\$7.95</p>  <p>Steel cultivator, plain, with 3 shovels, spreads to 33 inches.</p>	<p>80 cts.</p>  <p>buys this seeder. Our No. 1428 Genuine Otis crank seeder.</p>	<p>\$7.50 for Fanning Mill with grain outfit for cleaning wheat, rye, oats, corn, barley, beans etc. board of chisel and cockle. Clover, grass seeds extra.</p>	<p>\$6.50 buys perfect 100 egg incubator complete. \$4.35 for 50 Egg Wobblers, Jr. Incubator. Brooders \$3.15 and up. Handy egg carrier 95c, holds 12 to 16 doz. Root Cutter \$5.35.</p>	<p>\$15.25</p>  <p>For this 12-16 all steel disc harrow. Frame is made of best angle steel. Axle of coil rollers polished steel. Discs highest grade tempered steel. Spring neat. Drafts fit directly from axle. Guaranteed in every way.</p>	<p>\$15.30 buys our</p>  <p>two section steel land roller. 7 ft. 8 sections. \$17.50, 8 ft. 9 sections. \$19.50, 9 ft. 10 sections. \$21.50, 10 ft. 11 sections. \$23.50, 11 ft. 12 sections. \$25.50, 12 ft. 13 sections. \$27.50, 13 ft. 14 sections. \$29.50, 14 ft. 15 sections. \$31.50, 15 ft. 16 sections. \$33.50, 16 ft. 17 sections. \$35.50, 17 ft. 18 sections. \$37.50, 18 ft. 19 sections. \$39.50, 19 ft. 20 sections. \$41.50, 20 ft. 21 sections. \$43.50, 21 ft. 22 sections. \$45.50, 22 ft. 23 sections. \$47.50, 23 ft. 24 sections. \$49.50, 24 ft. 25 sections. \$51.50, 25 ft. 26 sections. \$53.50, 26 ft. 27 sections. \$55.50, 27 ft. 28 sections. \$57.50, 28 ft. 29 sections. \$59.50, 29 ft. 30 sections. \$61.50, 30 ft. 31 sections. \$63.50, 31 ft. 32 sections. \$65.50, 32 ft. 33 sections. \$67.50, 33 ft. 34 sections. \$69.50, 34 ft. 35 sections. \$71.50, 35 ft. 36 sections. \$73.50, 36 ft. 37 sections. \$75.50, 37 ft. 38 sections. \$77.50, 38 ft. 39 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on the nozzle, a fine spray and thorough agitation of the mixture, all from driving along the orchard row, with

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It fits any wagon gear and attaches to any shape supply tank. Saves 50% of liquid and half the labor of operating. High pressure through compressed air—enough to keep two point No. 10 nozzles going. Only hand work is directing the nozzles. Write for free booklet. WALLACE MACHINERY CO., Champaign, Ill.

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Good Cheer Department.

Keep Sweet.

Don't go handling out your troubles to your busy fellow-men—If you whine around they'll try to keep from meeting you again—Don't declare the world's "agin" you, Don't let pessimism win you, Prove there's lots of good stuff in you—Keep sweet.

If your dearest hopes seem blighted and despair looms into view, Set your jaw and whisper grimly: "Though they're false, yet I'll be true." Never let your heart grow bitter; With your ear to Hope's transmitter, Hear Love's songbirds bravely twitter: "Keep sweet."

Bless your heart, this world's a good one and will always help a man. Hate, misanthropy and malice have no place in Nature's plan. Help your brother there who's sighing, Keep his flag of courage flying; Help him try—'twill keep you trying—Keep sweet.

—Baltimore American.

Editor of Green's Fruit Grower: There is no one who needs good cheer these long winter evenings more than young people who are living lone lives on isolated and remote farms. To be shut away from the wide, busy world and companions of one's own age and disposition and live with those who may not, or do not understand or sympathize is pitiable. Young people who are so situated do not have opportunity for making wide acquaintance like city people and consequently have fewer friends. Friendship is what the human soul craves above all. All who are so situated deserve the most kindly consideration. Those who have no friends are apt to think that there is little in life for them, but better days must come. Hope is the one great refuge to fly to and which always gives brighter anticipation. The person ought to be bigger than his surroundings. The future is yet to be lived. This may be the preparation for it which will make it happier. This world has a place somewhere for each one, a place where each one is needed and will be happy in and nothing can stop us from eventually reaching it. Wesley N. Peck.

CHEERFULNESS MOST CONTAGIOUS.

A young woman recently applying for a position as domestic in a western family, after an exhaustive examination by her prospective mistress as to qualifications, says Southern Fruit Magazine, said: "Now, ma'am, let me ask one question before I say I'll work for you. Are you a grinner or a growler?" "What do you mean?" "Do you try to make the best of things as they come, or do you make the worst of them?"

"Why, I try to make the best of things, I believe. I never gave much thought to the matter before."

"Then I'll work for you. I never could work for a growler, but I'd work day and night, too, for a grinner. Growlers are so plenty now 'tain't easy to find an out-and-out grinner."

It is a question every housewife might well ask herself: "Am I a grinner or a growler?" It is a question upon which depends the happiness of every household, says the Housekeeper. No other department of life affords grander opportunities for the exercise of optimism than the home. Pessimism is creeping into every corner of the social fabric. It permeates business and society and educational institutions. "What's the use?" is the cry. Keep this mournful, nerve-destroying, soul-destroying wall out of the home, which should be the brightest, cheeriest spot on earth.

Every time a growler is changed to a grinner the world becomes a little brighter. "Grin and bear it" was old advice, and it's good to-day. Cheerfulness makes for long lives, good digestions, worldly success. Cheerfulness is the most contagious of all conditions. Let's catch it ourselves, and then do all we can to give it to others. Let all who are grinders continue to grin, and all who are growlers turn grinders.

THE KICKER.

The man who stands around and kicks, He is a lonely elf; For no one likes to hear his speech, Except, perchance, himself.

The weather never pleases him, Tho' it brings sun or rain; He seems to want to take the earth—And make it o'er again.

When he in heaven shall arrive, With earthly sorrows done, I fear he will complain about The way the place is run.

—Washington "Star."

Theory is all right, but results are more persuasive.

Fence Rail Philosophy.

It isn't always the best horse that wears the best harness. Opinions puff up some men the same as wind does an empty bladder. Work instead of wishes helps to fill the corn crib.

When a tree falls across your roadway get to work with an ax.

Have your saddle well girted when you ride a bucking mule.

The time to consider advice is before, and not after, a thing has happened.

The country squire and a brakeman are wonderfully alike in their duties—they both do a lot of coupling.

It's the real hobo who runs from a wood-pile like a mad bull runs toward a red shawl.

A man sometimes becomes a fool when careased too much by dame fortune.

A dog generally wags his tail more on account of the bone than yourself.

It is generally the poor hand that complains of poor tools.

If some men did all they say they do, they would require not so many trousers, but more shoes.—Farm Life.

Scientific Study of Character Signs.—While character may be often read from physical peculiarities, Karl Pearson, F. R. S., points out that the value of the indications can be estimated only from careful statistics. Tabulated observations upon large numbers of school children have given interesting results. The color of the eyes seems to have some relation to conscientiousness, 71 per cent. of boys with light eyes being keenly conscientious, while the percentage was only 61 in boys in dark eyes. Curliness or smoothness of the hair has slight significance, if any. The color of the hair is more important, 71 per cent. of the red-haired being keenly conscientious, but only 69 per cent. of the dark-haired and 55 per cent. of the black-haired. The very dark-haired show twice as many individuals of sullen temper as the red-haired, although the red-haired are much more quick tempered. The dark-eyed are rather healthier than the light, but the latter show rather higher intelligence. Of shy and quiet people, 75 per cent. are keenly conscientious, while the percentage in the self-assertive is but 50. Bad handwriting often attends great moral failing, but good handwriting betokens health, good temper, ability and conscientiousness.

Stones that Are Alive.—The most curious specimens of vegetable or plant life in existence are the so-called "living stones" of the Falkland Islands. Those islands are among the most cheerless spots in the world, being constantly subjected to a strong polar wind.

In such a climate it is impossible for trees to grow erect, as they do in other countries, but nature has made amends by furnishing a supply of wood in the most curious shape imaginable. The visitor to the Falklands sees scattered here and there singular shaped blocks of what appear to be weather-beaten and moss-covered boulders in various sizes.

Attempt to turn one of these boulders over and you will meet with an actual surprise, because the stone is actually anchored by roots of great strength; in fact, you will find that you are fooling with one of the native trees. No other country in the world has such a peculiar "forest" growth, and it is said to be next to impossible to work the odd-shaped blocks into fuel, because the wood is perfectly devoid of grain and appears to be a twisted mass of woody fibres.—Chicago Post.

The sting of a bee has long been regarded by the poorer agricultural classes of Europe as a cure of rheumatism. Dr. Perc, of Harburg, Germany, has recently been advocating its efficiency before a brilliant gathering of physicians, to whom he declared that he thoroughly tested the treatment and demonstrated its efficiency in 500 cases. If a bee stings a person suffering from rheumatism, the stung part does not swell until the bee poison has been frequently introduced, when the rheumatic pain vanishes. Dr. Perc's mode of procedure is to allow his patients to be stung at first by a few bees, gradually increasing the number. Dr. Perc asserts that by this treatment he has cured patients suffering from obstinate and most painful rheumatism.

"Sometimes a gal means it," said Uncle Eben, "when she says she ain't nebbin' gwine to marry no one. An' den agin, sometimes she's jes' trying to stahnt an argument in de hopes o' bein' convinced."

"Wallace's Farmer" says the surest way of reaching the codling moth and canker worm is by having a large number of hungry birds in the orchard and adds: "An ounce of bird is worth a pound of poison."

RHEUMATISM

CURED THROUGH THE FEET

Thousands are cured at home every month by MAGIC FOOT DRAFTS. Why not YOU?

Try Them—FREE

The Drafts cured Mrs. W. D. Harriman, wife of Judge Harriman of Ann Arbor Mich.

They cured H. C. VauValkenburg, Providence, R. I., of an intensely painful case of muscular rheumatism.

They cured severe rheumatism of the arms, neck and back for T. C. Pendleton, Jackson, Mich.

Mrs. Caspar Yahrdsdorfer, Jackson, Michigan, 70 years old, was cured in a few weeks, after suffering 30 years.

The Drafts cured James Gilbert, Locomotive Dept., Mich. Cent. R. R., Jackson, Mich., after 27 years of pain.

Dr. VanVleck, Jackson, Mich., writes that they cured him and he is now using them in his practice.



They have cured hundred of cases probably just like yours. Isn't the chance worth taking? You try them free. Send us your name. We will send you by return mail a pair of Magic Foot Drafts—prepaid. If you are satisfied with the comfort they give you, send us One Dollar. If not, you send as nothing. You decide. Magic Foot Drafts are worn without the least inconvenience, and cure rheumatism in every part of the body by stimulating expulsion of acid poison through the great foot pores. Splendid booklet, illustrated in colors, free with the trial Drafts. Don't suffer, but write to-day to the Magic Foot Draft Co., 279 Oliver Bldg., Jackson, Mich.

Please mention Green's Fruit Grower.

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Leather harnesses are expensive, heavy, cumbersome, hard on team and require constant expense of cleaning and oiling.

The Economy Rope Harness

is ideal for farm and ranch work. It costs one-third and weighs one-third as much as leather harnesses. It is stronger. Lasts longer. Cheaper to repair. Will not chafe. No stitching to rip. No oiling. Made of best rope and patent rope conforming trimmings. Adjustable to fit any team. Neat, cool and durable. Guaranteed. Double harness, except collars, \$8.00. Liberal terms to users to represent us. Study the picture. Write us. H. A. WILLIAMS MANUFACTURING CO., Box 530, Fond du Lac, Wis.

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We will send one sample of this pin FREE to any person who sends out this advertisement and sends it to us with their name and address in a letter. You must also inclose a two-cent stamp to pay the postage on the pin. Only one pin sent to each family. This is a gold-plated pin. It can be used as a ladies' stick pin or bangle pin. It can also be worn as a scarf pin, or the bangle can be taken off and used as a charm. The leaves are in green enamel and represent a four leaf clover. This offer is made so that we can mail you FREE our great new illustrated Jewelry and Fancy Goods Catalogue. This pin is gold plated. Address: Lynn & Co., 48 Bond St., New York.

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Principal is simply secured. If you are interested please state the amount of money you wish to invest if all is satisfactory, and I will send you full particulars. Address,

EDITOR GREEN'S FRUIT GROWER, Rochester, N. Y.

What Might Be Done.

What might be done if men were wise!
What glorious deeds, my suffering brother,
Would they unite
In love and right,
And cease their scorn of one another.

All slavery, warfare, lies and wrongs,
All vice and crime might die together,
And fruit and corn
To each man born
Be free as warmth in summer weather.

The meanest wretch that ever trod,
The deepest sunk in guilt and sorrow,
Might stand erect
In self-respect,
And share the teeming world to-morrow.

What might be done? This might be done,
And more than this, my suffering brother;
More than the tongue
E'er said or sung,
If men were wise and loved each other.

—Charles Mackay.

The Farm Orchard.

Set trees in a solid block on good land. An old way was to set apple trees along the farm walls and fences, says "American Cultivator." But trees in such locations are a nuisance, tempting breachy cattle, and difficult to care for in a businesslike manner. Of course a few trees will worry along anywhere and anyhow. But for profit, buy first-class trees, set on good, clear land, and keep it well cultivated. Orchards can be grown without cultivation, using manure and mulch, but it is a long wait before they reach profitable size. The writer has a good young orchard planted in a blueberry field with little cultivation except to keep bushes mowed and apply manure or nitrate of soda. But growth is slow and uneven. It would have paid to break up the rough, stony field and cultivate it as well as conditions permitted rather than to follow the plan adopted. One of the best plans is to set trees in freshly broken sod land thoroughly worked with disk harrow. Grow corn or potatoes, sowing red clover at time of last cultivation, and plow it in the next spring. Corn or potatoes will do well a few years, but unless clover or other green stuff is plowed under every year, the soil will soon reach a point where manure will not produce profitable crops among the trees, and the growth of the trees themselves will not be what it might. The land will not be laid down to grass, but the same effect toward restoring the soil may be had by plowing under green stuff.

Note.—Newly plowed sod land as usually prepared is not well fitted for planting trees.—C. A. Green.

Conditions of Fish Farming.

Crops that nature produces cost nothing for their cultivation. Animals that forage for themselves, and thus supply flesh food for the larder, are always valuable adjuncts to a man raising a family, says Agricultural Gazette. All holdings or farms are not adaptable for the raising of every kind of crop necessary for a family. Fish is one of them. Yet there are hundreds of places where fish culture could be carried on with advantage. Hitherto the stocking of our creeks and rivers with fish has been conducted almost solely to the benefit of the sportsman, rather than purveying for the table. Fish, fresh fish, is a luxury, even on the seaboard. In the back districts fresh fish is something of a rarity. Even in those localities where food fish abound the process of angling for a dinner is enticing.

No Sale.—The story is being told again of a Kansas farmer who decided to sell his property and listed it with a real estate agent, who wrote a very good description of the place. When the agent read it over to the farmer for his approval the old man said: "Read that again." After the second reading the farmer sat for several minutes in a thoughtful mood then said: "I don't believe I want to sell. I have been looking for that kind of a place all my life, and it never occurred to me that I had it until you described it to me. No, I don't want to sell out."—Kansas City "Star."

Quince.—The Champion quince is rather late in ripening for New England most seasons, and the Orange variety is safer. Set about 200 trees to the acre, which would be a trifle over fifteen feet each way. They bear at an earlier age than pears and average perhaps half a bushel of fruit per tree for twenty years, if trees receive proper care and located on strong, heavy soil. Trees may be set in the fall or spring.

This Will Interest Many.

F. W. Parkhurst, the Boston publisher, says that if one afflicted with rheumatism in any form, or with neuralgia, will send their address to him at 294-17 Winthrop building, Boston, Mass., he will direct them to a perfect cure. He has nothing to sell or give; only tells you how he was cured, after years of search for relief. Hundreds have tested it with success.

Billions of Apples.

The crop of apples, of salable quality, in the United States this year is reckoned at a little less than 50,000,000 barrels, says Cleveland "Leader." If apples somewhat inferior, but still useful for making cider and for other like purposes, were taken into account the total would be well beyond 50,000,000 barrels.

That means something like 30,000,000,000 apples. If the population of the country is now 80,000,000 there have been about 375 apples grown for every man, woman and child in the United States. That means an apple a day, every day in the year, for every one. These are tremendous figures, and the most surprising fact about the apple crop is that all of it might be grown in a smaller space than Cuyahoga county, which means Cleveland and the environs of the city, provided that all the trees were well matured and in good condition, and that all bore an excellent crop, the same year. That shows what can be done with mere little spots on the earth's surface, in the way of producing food, if the conditions are favorable and the best methods are employed.

Apple trees have room enough when they are set out forty to the acre. It is nothing remarkable to obtain five or six barrels to the tree, when orchards are at their best. A barrel means 500 or 600 apples of average size. A little figuring will show that an acre can produce 100,000 or 120,000 apples in a year. That means 70,000,000 or 75,000,000 apples to a square mile. And there are over 41,000 square miles in Ohio and 3,000,000 square miles in the United States, not including any outlying possessions.

Those who talk of the limited capacity of the earth for providing mankind with food scarcely understand their subject.

How to Get Better Fruit.

At the present time much talk prevails among horticulturists in regard to improvement by selection, says "American Cultivator." It is not improbable that in the near future they will be offering pedigree scions for sale. While selection is all right and important, snap judgments are to be avoided.

A few years ago a neighbor of mine found on a farm on the border of a meadow a tree bearing extra fine Porter apples. The next spring he took scions from that tree and asked me to graft them upon a Porter tree standing on his own grounds. I expressed to him a doubt as to their being any better when grown on his tree than that tree was growing. But he claimed that it was a different kind of Porter; was dead sure of it, in fact. I grafted his tree, and while doing it I cut scions from the tree and grafted them into a branch in the top of the tree, and when I had finished the job I told him what I had done, and told him that if, when the grafts commenced to bear, he could tell me which grafts came from that tree, I would pay him back the money that he had paid me for doing the work. In due time the grafts fruited, and he was unable to distinguish one from another by any difference in size or quality of fruit. This case of selection did not meet expectation.

Poor Richard Jr.'s Philosophy.

We never fully appreciate the train that doesn't get off the track. No man wants to travel a hundred miles an hour when he is going to explain.

Sometimes the poet is right and friendship is but a name—at the bottom of a note.

Optimism is the state of mind which believes matrimony will be cheaper than the engagement.

President Roosevelt is suffering the pangs and penalties of an approaching campaign. Everything he does will be twisted, but he seems to have the manly habit of keeping straight.—Saturday Evening Post.

Earth Worms.—Darwin, the great naturalist, who made a careful study of the earthworm in its relation to the soil, estimated that the average earthworm passes through its body about twenty ounces of soil per year, and that there are on an average 25,000 worms per acre, or one for each two square feet, making a little more than fifteen tons of soil and humus brought up from underneath and deposited on the surface of every acre of land annually. This is heavier manuring than is done by the average Iowa farmers. He also states that they cover the surface of the earth at the rate of three inches in fifteen years.

He—It certainly was a pretty wedding, and everything was so nicely arranged.

She—That's just what I think; and the music was especially appropriate.

He—I don't remember. What did they play?

She—"The Last Hope."—Christmas Lippincott's.

CASH FOR YOUR FARM NO MATTER WHERE IT IS

Do you want to sell your farm?
Do you want to sell it quickly and with the least possible expense?
Do you want to sell it at a reasonable price instead of sacrificing a good portion of its value?
Do you want it sold without publicity?
If these are your wants, I can fill them.
For eight years I have been filling these wants for people in every section of the country.
The result is the largest real estate brokerage business in the world.
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Eight years' experience, offices in principal cities from Boston to San Francisco, hundreds of special representatives and an expenditure of over \$500,000 a year in advertising, give me better facilities for selling your property than any other broker anywhere.
It doesn't matter whether your property is worth \$500 or \$500,000 or in what state or territory it is located. If you will send me a description including your lowest cash price, I will tell you just how and why I can quickly sell your property for cash and at the least possible expense to you. It will cost you nothing to get this information and I am sure you will be glad you asked for it.
If you want to buy any kind of a property in any part of the country, tell me your requirements. I will guarantee to fill them promptly and save you some money at the same time.

W. M. OSTRANDER, 239 NORTH AMERICAN BUILDING, PHILADELPHIA.

Healthy Apple Trees.

It makes a difference where you buy trees if you plan to have a choice apple orchard.

Pennsylvania, Nov. 15, 1902.

Messrs. J. G. Harrison & Sons,
Gentlemen:—The box of trees shipped in October came to hand in good condition. You have filled a number of orders for me in the past and thus far there has never been a single error. Expect to give you another order in the spring.

Yours truly,
N. G. HESS.

Buy where you have absolute assurance that your order will come right. They are right in variety, thrift, packing and price when you buy of

HARRISON'S NURSERIES.

There's an exceptionally fine stock ready for delivery. We always make a specialty of such prime favorites as York Imperial, Ben Davis, Baldwin, Rome Beauty, etc. Of upwards of a half million apple trees, we have over a hundred varieties, winter, summer and fall. Our climate and methods of propagating make our trees the favorite of the country. We pack so we can guarantee safe arrival everywhere. Our free catalog is the greatest apple tree buyer's guide. Write for it today.

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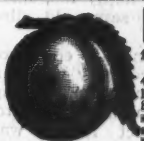
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Three Poultry Notes.

By the Editor.

We are told of a farmer who, for many years sold his black Langshan roosters for hen turkeys, first dressing them and cutting off their heads. The imposition was not discovered until he made known the fact when he went out of business. He seemed to be proud of the trick but we think he ought to be ashamed of it.

Feeding Poultry.—Bread, scraps of meat, paring of fruit and vegetables and other wastes of the kitchen make good feed for poultry providing it is fed to the birds before it becomes sour and tainted. The tendency is to store this waste in pails or tubs until it is no longer fit for the food of any animal. Feed this kitchen waste to the poultry each day and see that it is not frozen.

Lice on Poultry.—You cannot succeed with your poultry if they are infested with lice. If your building is infested you may be sure that your birds are. It is not difficult to rid the building of lice. It is more difficult to rid the birds of the pests. The building can be white-washed with a mixture containing carbolic acid, or can be sprayed with kerosene. Keeping the building thoroughly clean there is less danger of lice. To remove the lice from the birds buy pyrethrum costing ten cents a pound. With a small hand bellows blow this powder into the feathers, under the wings, etc., to the skin of the birds, repeating the process to the end of a week. Eggs will not be produced if the hens are covered with lice. Look out for old nests where hens have set since these are liable to be infested.

Is it not strange how many farmers will purchase and carefully house and feed improved horses, cattle, sheep and pigs, but scrub poultry is still good enough for them. Fowls all colors, all sizes and kinds are allowed to exist somehow somewhere, roosting in sheds, on wagon implements in the stable, anywhere, says American Poultry Advocate. I know there has been big improvement on some farms in some parts of the country, but on a great many too, farm things are done in the same old slipshod way.

Here is what Mr. Donovan, editor of Poultry Review, found recently when on a visit to one of the largest purchasing companies recently, located in Toronto. He says "A good object lesson was seen just inside the entrance gate, where were gathered together the lame, the halt and the blind, the riffraff of the thousands of chickens purchased by this concern for sale in its own stores and in addition to the quantities raised on the farm. Among the lot mentioned were mongrels and crosses of all kinds. Wry tails, hunch backs, etc., were in evidence enough to show that there is plenty of missionary work yet to be done even in the heart of Ontario. We did not believe there was such stuff in the country and how farmers and others could ship such birds and expect to get a price sufficient to recompense them for the cost of raising, is beyond our comprehension. The fact is, such birds do not pay anyone, either seller or buyer. The buyer pays the lowest price going for them and then has a hard time to dispose of them at even a small profit. In the winter corn is dumped down to the fowls at times, when some one wonders when the hens were fed last. When thirsty they can eat snow. If they have a house at all it is cold and full of holes that let in the wind and snow. It is generally filthy, lousy and full of disease germs. This is just the season that fowls well fed and housed will pay the best profit. If they are shut up for days when it is stormy they are without water or grit or green feed. Talk about your balanced rations—farm hens are glad to get grain once a day. Generally they have to scratch for grain in the barn-yard litter or straw stack.

Poultry Food.—The last essential to good laying is the soft food, or cooked mixture of oats and vegetables, or vegetable scraps. The latter should be boiled with the oats, and then after it is removed from the stove, wheat bran should be stirred in as an absorbent, until the mixture is crumbly dry, not soft and sloppy. This should be fed to the hens late in the evening. This represents

the "soft-mash," "balanced ration," etc., that we read about so much in the eastern poultry journals.

Two hundred thousand turkeys went into New York city on one train during the holidays. This train load of turkeys was given the right of way over the railroad. Passenger trains as well as other freight trains were switched to one side to allow this train to hurry on to the point of destination. Turkeys this year were scarce in the eastern states hence a great demand for those grown at the west.

Cheap eggs have gone out of fashion, says Tennessee Farmer. Be it summer, fall, winter or spring, the price rules high, while just at this time it is something great. Consumers are paying thirty cents a dozen in Nashville to-day, with a prospect of paying thirty-five cents by Christmas. This means at least twenty-four cents to the producer, and at two cents each there is a handsome profit in eggs, no matter what provision is necessary to produce them.

When the large packing concerns of Chicago insert paid advertisements in Western farm journals advising poultry raisers to use pure-bred stock because it is better for their use than mongrels, is it not about time to look into the matter? Surely it is not a matter of sentiment with them, this pure-bred proposition, but a matter of increased profits to be derived from the sale of uniform, plump carcasses.

Charcoal.—Fresh charcoal is readily eaten by all kinds of fowls and is excellent for them in the winter when they are closely confined. It serves as a corrective, especially when they have been fed on the same kind of food. It also promotes digestion. Charcoal is a good grit, as no matter how fine it may be it is sharp and cutting, and assists in reducing the food to a fine condition. It is largely used in the brooder houses for little chicks, as they relish it highly.—Baltimore "Sun."

Keep a Few Hens.—There is hardly a family, rich or poor, living in the country, village or suburbs of a city, that may not with advantage keep a small flock of poultry. With ordinary care it cannot help but prove remunerative and be a means of consuming quantities of kitchen and table scraps, which with many families amount to a good deal and are often thrown away. Unlike the work required in caring for a large number of fowls, very little time is needed to manage and feed the small flock, and there is nothing that will afford greater pleasure to the whole family than ten or twelve hens all of one breed, but this is of secondary importance as compared with what they bring in for the table, in the way of eggs and meat. No one knows how to appreciate good fresh eggs and well fattened chickens until they have them of their own production. A good many have an idea that because their space is limited, so the fowls are unable to roam over broad fields as on the farm, there is no use in trying to keep them. This is a mistake, for, while the farm is an ideal place to raise and keep poultry, some of the largest egg records have been made by yarded hens, and some of the birds in very close confinement at that. The great variety of food generally left over by the family is a most excellent egg producer.—Tribune.

More eggs are eaten in the United States every year than in any other country in the world. Iowa is the banner state in the matter of production furnishing 99,000,000 dozens, worth over \$10,000,000 in 1900. Ohio came second as to amount, with 91,000,000 dozens and although this quantity was smaller than the egg product of Iowa, it was worth more, having a total value of \$10,299,000. Colorado does not produce a sufficient amount to supply the home demand. The majority of fowls of this country are found in small numbers on large farms where they gather subsistence and receive little care.

No vegetable will completely fill the place of cabbage as winter food for hens. The crisp, tender leaves closely resemble fresh grass in composition and mechanical condition. Fowls relish it and will eat a surprising amount if it is kept before them. Alfalfa cut into short lengths is largely used by poultrymen and is an excellent food, very nutritious, cheap and easily prepared. It is rich in muscle-forming materials if steamed soft and mixed in mash in the proportion of one part to five or six of ground grain a very gratifying food is produced.

"If the dog's prayer were heard, there would be a shower of bones from heaven."

Poultry Continued on Page 35.

INQUIRY ANSWERED.

"You Can."—M. S. C. Ritchie, Ore., writes to inquire "if anyone with average common sense could learn how to use an incubator and raise chickens at a good profit? I'm tired of setting twelve or fourteen eggs under a hen, having her smash and eat them, then hatch one or two chicks. There's no money in her."

Scores and hundreds of our readers will answer for us—"get an incubator, by all means," and a large proportion of them will add "get a Reliable."

There are many good reasons for this. Twenty years of steady improvement and unqualified success has marked the history of the Reliable Incubators and Brooders. These machines have been subjected to the most rigid tests and hottest competition not only in America, but in every civilized foreign country. In these local, national and international trials the Reliable has out-hatched its competitors in hundreds of instances and rightly bears this hard-earned title "The World's Favorite."



Disinterested judges have witnessed the high per cent. hatches produced; the ease and simplicity with the Reliable machines can be run. Unbiased mechanical critics have carefully examined and tested the Reliable Safety Lamp, the ventilation system, the sensitive, self-acting regulator, the heavy copper water tank and sheet steel hot air circulators. Trained cabinet makers have passed on the insulation and solid construction of the case. How well they have agreed is convincingly summed up in the long list of numerous awards received at home and abroad. These flattering decisions are published in the Reliable catalogue for 1904. This is the twentieth annual issue. It is handsomely illustrated with half-tones, and is an invaluable hand book on successful poultry raising, besides being a complete catalogue of Reliable incubators, brooders and poultry supplies. It also contains a description of the famous Reliable Poultry Farm where pure bred, high grade birds are raised for breeders.

The Reliable Incubator & Brooder Company, Box 600, Quincy, Ill., will send this exceptionally complete catalogue to any one who will send five two-cent stamps to pay postage.

Please mention Green's Fruit Grower.

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is the nearest of all the out and out automatic machines, both incubator and brooder. They can be depended upon under all conditions to hatch the most and brood them the best. All eastern orders have prompt shipment from Buffalo. 100 pens of standard fowls. Incubator Catalog free, with Poultry Catalog 10c.
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From 1 to 40 H. P. Also Bone Cutters, hand and power, for the poultrymen; Farm Feed Mill, Grain Hammer, Floor Mill, Grit and Shell Mills. Send for catalogue. **WILSON, BROS., Sole Mfrs., Easton, Pa.**

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are up-to-date, well-built and low-priced. We sell poultry supplies to send for our Incubator Book.
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LITTLE CHICKS DON'T DIE when fed and tended right. Feed Mrs. Pinkerton's Chick Feed and make good profits. Write now for free catalogue on chick raising and learn too about our prize winning, pure bred birds.
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A touching story of devotion telling how Handy paid the mortgage and saved the farm. Tells how to make money from poultry. Also Egg record and Calendar for 1904. Mailed free. **Geo. H. Lee Co., Omaha, Neb.**

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Winter pruning of deciduous trees is undesirable. A tree should be growing when it is pruned, as the wound will then readily heal. There is no circulation of sap in the winter and the limb dries or rather the bark and makes it hard for the new bark to grow over the amputated limb. So says an exchange. If I had but one tree I would prune as above, but if I had 1,000 trees I would prune any time the leave were off.—C. A. Green.

Will You Write a Postal So a Sick One May Get Well?

Send no money—simply a postal card, giving the name of some one who needs help. Tell me the book to send. Then I will do this—I will arrange with a druggist near him so that he may take six bottles of Dr. Shoop's Restorative. He may take it a month at my risk. If it succeeds, the cost is \$5.50. If it fails, the druggist will bill the cost to me.

That month's test will show you what the remedy can do. It is the easiest way to convince you. It is the only way to induce all who need help to accept it.

I make the offer to multiply my cures, and I am willing to trust the cured ones to be fair with me.

In the past 12 years I have furnished my Restorative to hundreds of thousands of sick ones on just those terms, and 99 out of 100 have paid gladly, because they got well.

I pay just as willingly when one says I have failed. The remedy is my discovery, the result of a lifetime's work. I have perfected it by watching results in thousands of the most difficult cases that physicians ever meet. I know what it will do.

My success comes from strengthening weak inside nerves, and my Restorative is the only remedy that does that. When an organ is weak I bring back the nerve power which alone operates every vital organ. It is like giving an engine more steam. I give the weak organ power to do its duty, and there is no other way to make a weak organ well.

Can you conceive of a sick one who will neglect such a treatment, when I take the entire risk?

Simply state which book you want and address: Dr. Shoop, Box 410, Racine, Wis.

Mild cases, not chronic, are often cured with one or two bottles. At druggists.

Cornell Incubator Advancement.

The Cornell patented system of temperature regulation, and perfected system of ventilation. The Cornell ventilates in Nature's way. Gets the proper moisture line at the right time—in any locality—under all conditions—at any season of the year. Result: Healthiest and most vigorous chicks ever obtained by artificial incubation. Compound door, Cabinet construction, Table top. Gold Medal; Highest award at Buffalo Pan American Exposition. **PUMP-UP-BAY BROODERS** are the brooders that are used exclusively by the largest and most successful poultrymen. On the market ten years. Thousands of testimonials. Our very large, fully illustrated catalog contains valuable information. Mailed free. All Poultry and Pet Stock Supplies. **Cornell Incubator Mfg. Co.** Box 100, Independence, Mo., Sept. 26, 1908. Cornell Incubator Mfg. Co., Ithaca, New York. Gentlemen: I must confess that the incubator I bought of you 12 years ago. It does its work well and economically, ventilation seems to be perfect, and it is easy to operate. Very truly yours, Wm. THOMPSON, E. F. D. No. 7.

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The HUMPHREY Pure Air BROODER raises every healthy chick. Absolutely sanitary. Get our free poultry book. HUMPHREY, Flag St. Factory, Joliet, Ill.

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are truthfully pictured and their actual working told in about 30 of the 80 pages of our new catalog. The rest of the book gives information about the chicken business. We begin the story in the egg and end it with the marketing of the fowls. There's knowledge which will benefit anyone who may mean dollars to you. Our incubators are driving hens out of business. They work regardless of weather or of seasons. You can count on hatching every fertile egg. Money back if not all we claim. We pay freight. The book is free. Just say "Send Victor Book" and we'll do it. GEO. ERTL CO., Quincy, Ill.

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Our Small Fruit Department

SMALL FRUITS FOR HOME AND MARKET.

Written for Green's Fruit Grower by W. A. Withrow, Ind.

A few years ago we first began growing berries for home use. Before that time we had considered it cheaper to buy what fruit was needed in the household. Sometimes it was, we could occasionally get a bargain in a lot of stale berries which had to be sold. Or if we traveled a mile to a neighbor's house we could buy the fruit as it came from the field. But the pleasure lies not entirely in the eating and not until we had ourselves grown small fruits did the family realize the enjoyment afforded in one's own berry patch.

Our first venture was in strawberry growing, a plot of about one-eighth acre being set in Warfield, Marshall, William Belt and Brandywine. The plants were set in rows and most of the cultivation was by horse power, with an occasional hoeing and training the runners. How solicitously we watched the plants as they rooted, feeding them generously and speculating freely upon the great size to which the berries should attain! And the next season, as the fruit developed on the stems, turning from green to white to pink and to crimson under the caresses of the June sun, we watched them delightedly. What a joy to go out in the cool, early morning, to lift up the dewy leaves which sheltered the shining clusters,—how quickly the luscious fruit filled the bright tin pan! Do you wonder that we were often tempted by a particularly fine specimen to sacrifice it on the spot? And would not you, too, have resolved to always grow your own fruit?

From the one-eighth acre of that season, besides what we used on the table and canned, we sold about \$34 worth of berries, and could easily have disposed of a greater quantity. Every year since we have increased our planting until we now have about two acres in strawberries, planning to set at least an acre of new fields each year, and more berries could be sold in our home market could we secure the help to harvest a larger crop. About one-half the planting is of the Warfield variety, with Johnson's Early and Senator Dunlap alternating. Early in the season these are sold for table use, until they begin to grade somewhat smaller when they go for canning, to be replaced by the later Brandywines, Glen Mary, Corsican and Sandy.

We have about one-half acre each in red and black raspberries and a somewhat larger field of blackberries, and although they do not net so much for the acreage as do strawberries the expense of growing the fruit is not so great. We would consider an income of two hundred dollars per acre a fair average for a series of years. Of varieties we grow Miller Red and Cuthbert red raspberries, Cumberland and Kansas black caps and the Snyder blackberry.

Of currants we have several hundred plants of Cherry, Fay and Red Dutch. It is not an uncommon occurrence to pick six to seven quarts of fruit from a single bush, selling at 8 to 3 cents per quart. The plants are fertilized with done dust and a mulch of straw is spread around the bushes. For garden culture especially is this method to be commended for all of the bush fruits.

The Concord is the only variety of grape generally grown in this locality, although Worden, Niagara and Diamond are successfully produced. For grapes of good table quality we can always get 25 to 40 cents per ten pound basket, and as the vines begin fruiting the third year from planting we are inclined to set more extensively.

Usually it is much easier and more profitable to develop your home market rather than depend on distant shipments. Grow the best fruit, put it up in an approved style, and if there is not a demand, you will make a market. Five acres of suitable ground, well planted and tended will furnish one worker employment and may be expected to return an income of \$800 to \$1,000 a year.

The department of horticulture of the University of Missouri is unable to supply the demand for trained orchardists, says National Fruit Grower. Within the two weeks from October first the department has received requests for three men to superintend commercial orchards and for two men trained for experimental work. This is but a fair sample of the opportunities open to graduates of agricultural colleges. Why boys will enter other crowded professions with these opportunities before them is unexplainable.

ARE YOUR KIDNEYS WEAK?

Thousands of Men and Women Have Kidney Trouble and Never Suspect It.

To Prove What This Great Kidney Remedy, Swamp-Root, will do for YOU, Every Reader of Green's Fruit Grower May Have a Sample Bottle Sent Absolutely Free by Mail.

It used to be considered that only urinary and bladder troubles were to be traced to the kidneys, but now modern science proves that nearly all diseases have their beginning in the disorder of these most important organs.

The kidneys filter and purify the blood—that is their work.

Therefore, when your kidneys are weak or out of order, you can understand how quickly your entire body is affected, and how every organ seems to fail to do its duty.

If you are sick or "feel badly," begin taking the great kidney remedy, Dr. Kilmer's Swamp-Root, because as soon as your kidneys are getting better they will help all the other organs to health. A trial will convince anyone.

Didn't Know I Had Kidney Trouble.

I had tried so many remedies without their having benefited me that I was about discouraged; but in a few days after taking your wonderful Swamp-Root I began to feel better.

I was out of health and run down generally; had no appetite, was dizzy and suffered with headache most of the time. I did not know that my kidneys were the cause of my trouble, but somehow felt they might be, and I began taking Swamp-Root, as above stated. There is such a pleasant taste to Swamp-Root, and it goes right to the spot and drives disease out of the system. It has cured me, and I cheerfully recommend it to all sufferers.

Gratefully yours,
Mrs. A. D. WALKER,
46 West Linden St., Atlanta, Ga.

Weak and unhealthy kidneys are responsible for many kinds of diseases, and if permitted to continue much suffering and fatal results are sure to follow. Kidney trouble irritates the nerves, makes you dizzy, restless, sleepless and irritable. Makes you pass water often during the day and obliges you to get up many times during the night. Unhealthy kidneys cause rheumatism, gravel, catarrh of the bladder, pain or dull ache in the back, joints and muscles; make your head ache and back ache, cause indigestion, stomach and liver trouble, you get a sallow, yellow complexion, make you feel as though you had heart trouble; you may have plenty of ambition, but no strength; get weak and waste away.

The cure for these troubles is Dr. Kilmer's Swamp-Root, the world-famous kidney remedy. In taking Swamp-Root you afford natural help to Nature, for Swamp-Root is the most perfect healer and gentle aid to the kidneys that has ever been discovered.

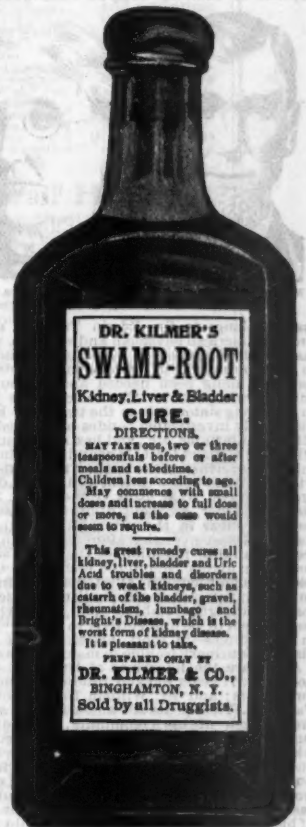
How to Find Out

If there is any doubt in your mind as to your condition, take from your urine on rising about four ounces, place it in a glass or bottle and let it stand twenty-four hours. If on examination it is milky or cloudy, if there is a brick-dust settling, or if small particles float about in it, your kidneys are in need of immediate attention.

SPECIAL NOTICE.—So successful is Swamp-Root in promptly curing even the most distressing cases, that to Prove its wonderful merits you may have a sample bottle and a book of valuable information, both sent absolutely free by mail. The book contains many of the thousands upon thousands of testimonial letters received from men and women cured. The value and success of Swamp-Root is so well known that our readers are advised to send for a sample bottle.

In writing to Dr. Kilmer & Co., Binghamton, N. Y., be sure to say that you read this generous offer in GREEN'S FRUIT GROWER. The Proprietors of this paper guarantee the genuineness of this offer.

Swamp-Root is pleasant to take and you can purchase the regular fifty-cent and one-dollar size bottles at the drug stores everywhere. Don't make any mistake, but remember the name, Swamp-Root, Dr. Kilmer's Swamp-Root, and the address, Binghamton, N. Y., on every bottle.



(Swamp-Root is pleasant to take.)

Swamp-Root is pleasant to take and is used in the leading hospitals, recommended by physicians in their private practice, and is taken by doctors themselves who have kidney ailments, because they recognize in it the greatest and most successful remedy for kidney, liver and bladder troubles.

Truth Telling Thermometers

No guesswork wanted when a big hatching of eggs depends on steady, even temperature. The poultryman's sure guide is the standard, Sure Hatch thermometer—tested and reliable. Not merely the thermometer, but every separate part of the

Sure Hatch Incubator

is equally dependable; the sturdy legs; the tight, rigid case; the never-forgotten regulator; the constant, Eureka lamp; the heavy copper water tank—every part of the apparatus working together making money for poultry raisers. Free catalog B-4 tells how. Sure Hatch Incubator Company, Clay Center, Neb., or Indianapolis, Ind.

ROUND AND "SQUARE"

A much pleased customer wrote us: "I had always preferred things 'on the square' but now make an exception as to incubators." He found the claims we made for the

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were "on the square". Hundreds of his valuable eggs had been ruined in square machines. "But," he says "no machine could do more; Nature could do no more; I am satisfied that there is one honest incubator—The Iowa." Write for catalog. Iowa Incubator Co., Box 144, Des Moines, Ia.



For Kidneys, Bladder and Rheumatism

Remarkable Cures of Mrs. Kelly of Loda and Mr. Hollister of Halsey Valley—New Discovery by Which All Can Now Easily Cure Themselves at Home.

TRIAL TREATMENT AND 64-PAGE BOOK SENT FREE TO ANY NEEDY PERSON.

At last there is a scientific way to cure yourself of any kidney, bladder or rheumatic disease in a very short time in your own home and without the expense of doctors, druggists or surgeons. The



Mr. Hollister cured in his 67th year. Mrs. Kelly cured in her 71st year, by this discovery.

credit belongs to Dr. Edwin Turnock, a noted French-American physician and scientist, who has made a life-long study of these diseases and is now in sole possession of certain ingredients which have all along been needed and without which cures were impossible. The doctor seems justified in his strong statements as the treatment has been thoroughly investigated besides being tried in hospitals, sanitariums, etc., and has been found to be all that is claimed for it. It contains nothing harmful, but nevertheless the highest authorities say it will positively cure Bright's disease, diabetes, dropsy, gravel, weak back, stone in the bladder, bloated bladder, frequent desire to urinate, albuminuria, sugar in the urine, pains in the back, legs, sides and over the kidneys, swelling of the feet and ankles, retention of the urine, scalding, getting up nights, pain in the bladder, wetting the bed and such rheumatic affections as chronic, muscular or inflammatory rheumatism, sciatica, rheumatic neuralgia, lumbago, gout, etc., which are now known to be due entirely to uric acid poison in the kidneys—in short, every form of kidney, bladder or urinary trouble in man, woman or child.

Above are the likenesses of Mrs. W. J. Kelly of Loda, Ill., 71 years old and residing in the county for 39 years; and Mr. William Hollister of Halsey Valley, N. Y., 67 years old and a reliable and honored citizen of his community. This discovery cured Mrs. Kelly of a violent form of rheumatism when she was so bad that she could scarcely walk, and after she had been operated on twice in St. Luke's Hospital. Mr. Hollister had been suffering from a complication of kidney and bladder diseases for over ten years, and was about at the end of his hopes. Finally he thought he would try once again and wrote Dr. Turnock, took the famous treatment and was cured and is now, in his 67th year, as hale and hearty as when in his prime. To prove that it will do as much for you or anyone else who suffers from a kidney, bladder or rheumatic disease, you have simply to send your name and address to the Turnock Medical Co., 610 Turnock bldg., Chicago, Ill., and the discoverer will send you a free trial treatment for personal use as well as a 64-page illustrated book which sets forth the doctor's original views, goes deeply into the subject of kidney, bladder and rheumatic diseases, gives the ingredients of his treatment and names of scientists who endorse it, letters of testimony from men and women cured of every one of the above diseases and from every state in the Union. All this costs you nothing and you have simply to write to the discoverer's company at the above address. Do so without delay and you will soon be cured.

Rheumatism

Have you heard of my wonderful Vibro-Disc? Do you know that my Vibro-Disc is a cure for Rheumatism? This is a big claim, but its proof is as follows: I put the best possible evidence for its FREE into your own hands—I send a Free Treatment of Vibro to all who write and ask for it. There is positively no cost, no condition, no charge or aftercharge. I simply want you to convince yourself that my treatment cures any form of Rheumatism, be it acute or chronic, swellings, aches, stiffness and expels the uric acid poison. It cures Rheumatism finally and forever. My elegant pictorial book on the "Conquest of Rheumatism" is also sent free with the test I offer you. You get help and relief together, without one cent of outlay. Can you afford to suffer longer in presence of this generous offer? Your Rheumatism will never grow better by "letting alone," and it is a constant loss as well as a torture and danger. Do not loiter. This Free Treatment and Free Booklet are yours for the asking. Write to-day if you wish to test without cost the healing triumph of the century.

Prof. S. M. Watson (Dept. 53)

Battle Creek, Mich.

STRANGE ARGUMENT

Regarding the cure of

STOMACH TROUBLE

"I don't ask people to stop eating or drinking good things when they want to be cured of stomach trouble," says the proprietor of Royal Tonic Tablets. "They wouldn't do so if I did, so I say to them, eat what you like, drink what you like, but take Tonic Tablets according to directions. They strengthen weak stomachs and will positively cure in spite of all. When the stomach trouble disappears, so will all the ailments of head, heart, liver, kidneys, blood and nerves."

We are going to distribute 10,000 packages of our great reconstructive remedy absolutely free. Write for a free sample and booklet and be convinced of their great curative power.

A full month's treatment costs \$1. Your money back if you want it. Royal Tonic Co., Dept. A 436 Elliott St., Buffalo, N. Y.

Apple Exports Pay.

At the forty-eighth annual session of the Illinois State Horticultural society, held at Urbana, December 16th, President Ahlrich strongly advocated the increase in export of apples to Europe. There are large profits in the business he said, and American shippers are slow to take advantage of it. In 1896 and 1897 over 3,000,000 barrels of apples were exported to Europe, England and Germany being the largest customers. This year less than 1,000,000 bushels have been sent across the water. While the cost of shipping is high, 62 1-2 cents per barrel, the enormous prices in England and Germany permit a large profit. In the former country apples bring from \$4 to \$5 per barrel and in the latter as high as \$6.50. Through improved cold storage in shipment, the apples reach their destination in fine condition. Mr. Ahlrich advocated the adoption of a uniform package for shipping apples. He said that barrels were expensive and hard to obtain, a famine constantly being threatened. He suggested that an open topped basket be substituted, as besides possessing the feature of economy, it permitted a view of the fruit.

Ways must be found of informing the public as to the seductive qualities of these goods, and no effort neglected to inform and please the customer; to put in his hands the grade he wants, not necessarily the best grade, but the one he wants, and to see to it that he is informed and never deceived in this matter.



The Ben Davis Apple has long been a favorite of orchardists, particularly those in Missouri. While the Ben Davis is profitable, handsome, firm and long-keeping, it is not of the best quality. Like all other apples, its quality varies when grown in different locations or even in different seasons. Notwithstanding this fact, many trees of Ben Davis will doubtless be planted the coming spring.

This will of itself extend the trade, increase consumption and of course raise prices. Why should not the public be fully informed as to the Ben Davis apple, for example—that it should be used in the spring and not in the fall, as is common now? Things acquire an evil name by unseasonable use. Why should not the public know exactly what is meant by unseasonable use? Why should not the public know exactly what is meant by a No. 1 and a No. 2 apple? If the difference is foggy and not definite, then make it definite, not leave it to the judgment, caprice or cupidity of a thousand different men all along the line. Why not issue attractive advertising literature? Surely the subject warrants it as well as do shoes, soap, or breakfast foods. I tell you now if the trade in apples was in the hands of the men who sell shoes, soap, corsets, gum, etc., apple eating would become a matter of fashion and there would be a revolution in consumption and in prices. Think of the possibilities by way of illustration and description. What stands in the way of it? Nothing but the fact that the producers are many and have never used their organized effort in this direction.

In the Procession.

Dr. Chauvel, medical inspector of the French army, reported that of 188 cases of appendicitis in the hospitals treated with the knife, twenty-three proved fatal; while in 480 cases not treated with the knife there were only five deaths. Dr. Chauvel also stated that appendicitis is found to be rare among peoples who eat no meat. "No meat no appendicitis." But the meat eaters suffer.

A Tennessee editor says that he believes in race suicide. In his case the loss would hardly be serious.

There is a woman with a will named Wiltburg in Wisconsin. After a year's

absence her husband had just reappeared, and now it comes out that she locked him up to cure him of the liquor habit.

Chauncey Depew puts the number of millionaires in this country at about one hundred thousand. He also remarks that "the million dollar man has no rank or place or consideration in the ten million class, and the ten million chap is a little fellow in the fifty million or hundred million circle."

Lyman Abbott compares Henry Ward Beecher with the other great orators of the century. If the test of oratory he says is the power of the speaker to influence an audience, then Mr. Beecher was the greatest orator I ever heard. Comparing him to Daniel Webster he says: "One was a glacier, the other an avalanche, one was a battery of artillery, the other was a regiment of horse charging with the impetuosity of Ney."—Advance.

Chances for Young Men.

"Are there as many opportunities for young men now as when you came to the city?"

"No, for the number of young men has vastly multiplied in proportion to the development of industry and of the country. When I came to Chicago men were few and there was an opening for everybody."

"Were the majority of the largely successful men whom you have known born in the city or in the country?"

"All of them were from the country."

Bright's Disease and Diabetes Cured.

Harvard University Acting as Judges.

Irvine K. Mott, M. D., of Cincinnati, O., demonstrated before the editorial board of the Evening Post, one of the leading daily papers of Cincinnati, the power of his remedy to cure the worst forms of kidney diseases. Later a public test was instituted under the auspices of the Post, and five cases of Bright's Disease and Diabetes were selected by them and placed under Dr. Mott's care. In three months' time all were pronounced cured. Harvard University having been chosen by the board to make examination of the cases before and after the treatment.

Any one desiring to read the details of this public test can obtain copies of the papers by writing to Dr. Mott for them.

This public demonstration gave Dr. Mott an international reputation that has brought him into correspondence with people all over the world and several noted Europeans are numbered among those who have taken his treatment and been cured.

The Doctor will correspond with those who are suffering with Bright's Disease, Diabetes or any kidney trouble, either in the first, intermediate or last stages, and will be pleased to give his expert opinion free to those who will send him a description of their symptoms. An essay which the Doctor has prepared about kidney troubles and describing his new method of treatment will also be mailed by him. Correspondence for this purpose should be addressed to IRVINE K. MOTT, M. D., 51 Mitchell Building, Cincinnati, O.

Please mention Green's Fruit Grower.

ONE PACKAGE FREE

Have you got Dyspepsia, Indigestion, or any kind of stomach ailments? You can be cured. I will send you FREE a package of my stomach tablets which is the best remedy for the stomach that has ever been prepared. I have had more than 20 years' experience perfecting a remedy that will cure all forms of stomach trouble: Dyspepsia, indigestion, gas on the stomach, heart-burn, palpitation of the heart, and ills caused by poor digestion. My

Stomach Tablets

assist the stomach to digest food. That is their mission. They do this by setting things right in the stomach. They create new life and energy by strengthening the stomach. Write and free package will be sent by return mail.

JOHN MORROW, Chemist, 110 Forest Building, Springfield, Ohio.

ICUREFITS

When I say I cure I do not mean merely to stop them for a time and then have them return again. I mean a radical cure. I have made the disease of FITS, EPILEPSY or FALLING SICKNESS a life-long study. I warrant my remedy to cure the worst cases. Because others have failed is no reason for not now receiving a cure. Send at once for a treatise and a Free Bottle of my infallible remedy. Give Express and Post Office.

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Write for new booklet, Special Offer this month. Our new Quaker Folding Vapor Bath Cabinet, finest product. Everybody delighted. Enjoy at home for 30 each all the marvelous cleansing, invigorating, curative effects of the famous Turkish Bath. Open the 5,000,000 pores, purify the entire system. Send Hot Springs. Prevents disease. Saves Dr. bills. Cured thousands. Nature's drugless remedy for colds, grip, rheumatism, aches, pains, blood and skin diseases, kidney trouble, children's diseases and female ills. Guaranteed. Sent on 30 days' trial. \$100 to \$200 a month. Salesmen, managers, general agents. WORLD MFG. CO., 82 WORLD BUILDING, CINCINNATI, OHIO.



SECRETS OF FRUIT GROWING.

C. A. Green has been photographing orchards, vineyards, berry fields, etc., and has collected over 100 photographs in a new book with helpful suggestions to fruit growers, instructing the reader in the secrets of fruit growing. It is unlike anything published, illustrating and describing methods of planting and growing trees, etc. Something every fruit grower should have. The price is 25c, but we will accept 10c. If you will mention this paper. Our new fruit catalogue will be sent in the same package. Address, GREEN'S NURSERY CO., Rochester, N.Y.

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The up-to-date consumer has ceased to allow his shopping affairs to worry him. He makes out his order from our large catalogue, sends it and we do the rest. We began pleasing and saving money for our customers over 32 years ago, and our remarkable success since that time is only a true mark of the people's growing trust in us and our methods.

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What I Would Do If I Were Very Poor

CONTINUED FROM LAST ISSUE.

"What I would do if I were very poor" I feel is a question of much greater importance than "What I would do if I were rich?" Millions of human beings have to face the first problem. It is a difficulty I have often thought over, although abject poverty is beyond my comprehension. I cannot conceive of myself experiencing such poverty, although I always expect to remain poor comparatively. When I look abroad and see the sin and misery around me I feel that 90 per cent. of poverty could be avoided, and the care of the remaining 10 per cent. would be a privilege rather than a burden. If I were very poor I would observe such simple rules as: Avoid sin in any form. Be cleanly. Abstinence, avoiding both narcotics and stimulants. Practice vegetarianism. Ten cents well invested in cereals give a healthier and more nutritious diet than fifty cents spent in meat. Eat plenty of fruit. Whole wheat bread in summer. Avoid large cities. Get near the soil. Work, watch and pray. Now, how could I or any living being possibly remain miserably poor or unhappy if living along these or similar lines?—James Macfarlane, N. Y.

If I were very poor I would have nothing to do with alcoholic drinks or tobacco. Poor people do not realize how much they spend for these two items. I would have nothing to do with labor unions or strikes. I would begin work on the first job offered that I was capable of doing and would stick to it faithfully until it was done, or until a better job was offered. The money that I earned I would use for my comfort and not for foolish or trivial things.—George R. Larned.

If I were poor and unable to work I would try to interest neighboring children. I would try to teach them to sing and to do various useful things expecting to earn some money in that way. I would aim to interest them in the Bible by telling them Bible stories. If I were able to work I should accept whatever work presented itself. I would love God and all His creatures.—Mrs. C. W. Blackland.

It is a dreadful thing to be very poor, to not have plenty to eat, plenty to wear and something left for a rainy day. In my opinion ignorance is largely the foundation of poverty. If people were wise and spent money with discretion, making better plans there would be less poverty. If very poor I would accept the best job I could get and would be industrious and temperate. As the poor man has nothing but his labor to sell, no other resources, he can better his condition by using his mind, by forethought, by making careful plans and by spending money discreetly. Since his health is his principal capital he should be exceedingly careful about exposing himself, yet I often see laborers tramping about or working in rainy weather without protection. If poor I would endeavor

to employ some of the methods of rich people, that is co-operation and organization. I would aim to understand the political condition of affairs so as to be able to vote intelligently and I would never fail to cast my vote, always voting for the best man for the place without regard to political party.—S. J. H. Trine.

If I were very poor I would lease an acre of ground and set it out to Phenomena berries and make enough in one year to buy the acre of ground and build a small house. There is no place like home be it ever so tiny. Then I would continue in the berry business and add to my ranch, and I would not be very poor any more.

The Phenomena berry was propagated by Luther Burbank, and is a good market berry. Ripens here in May and June. On a plot of ground 5x6 rods (30 square rods) I raised and sold over \$300 worth of berries and plants in the year 1902. I now have almost 2 acres of these berries.—Lena Watkins, Col.

I was reared an orphan and knew not the pleasures and happiness of childhood like those brought up under the fostering care of parents. My early education consisted of a common school course.

At the age of 13 years I went to work and have practically earned my bread ever since.

My mother remarried when I was 12 years of age and I lived with her and my stepfather until I married, at the age of 20. My stepfather was a German farmer and my experience on a farm dates back to my mother's marriage to him.

When I married I had about \$50, no trade, nothing but a few years' experience on the farm to boast of. I worked about for other people for wages, getting hard work and poor pay, until I decided that there must be something else done.

With this object in view I went to the city near where we lived and secured employment in a machine shop as laborer at \$1.00 per day. I moved into two back rooms in the city and lived for 7 months on that wage, paying \$8.00 per month rent.

I soon found that a man didn't have much chance to learn by remaining in one place, so I secured a position in another shop as a machine man at \$7.50 per week.

Seeing that I was benefited by the change I learned all I could about the system of working and methods employed, making several changes and defying the old adage about "a rolling stone, etc." at the end of 3 years I hired as a competent machinist at \$17.00 per week. During that time I had a spell of sickness aggregating about six months and had one death in my family, my oldest child being stricken with brain fever.

My sickness became so chronic I decided that if I wanted to live and get ahead in the world I would have to leave Ohio and go to a warmer latitude, which

I did November, 1902, and landed in Georgia with only \$2.17 in my pocket, having left my family with my people until I could get a start in the south. I found employment, but shop conditions were very little different from the north so I decided to go to the country and see what I could do. I found a location where a blacksmith and wagoner was wanted and as there was some machinery about that I could secure work at my trade of machinist I took charge. I managed to make a living at it all last summer and as I surprised the neighbors with my knowledge of intensive gardening it was not long until I contracted with a wealthy land owner to assume charge of a fruit farm. I am now located on said farm and am making preparations to truck farm in connection with the fruit which consists of 2,500 peach trees, 1,000 apples, 150 pears, 100 plums and cherries and 1 1-2 acres of strawberries.

I am poor, financially, but I would not give my past experience for all the wealth of the country.

It has shown me that a man need never despair in this rich and enterprising land. There is a place for all and one has only to hunt for it and he will find. Editor Green knows from experience what reverses are and I hope that I can be as successful as he has been in my chosen sphere.—W. A. Robertson, Georgia.

Experience With Cherries.

I have been at work more or less growing cherries for a quarter of a century, says S. D. Willard, N. Y., in American Agriculturist. I have several hundred trees which are being fruited for commercial purposes, but they are so scattered that I do not know that I can estimate the acreage. I have found the Richmond, Montmorency and English Morello the most desirable. Think the Napoleon as a sweet sort and the Montmorency as a sour are the two best for canning. Five to 6 cents per pound were the prices generally paid for sour, and 12 to 15 cents for sweets, in this section, this season. The growers usually deliver them at the factory or railroad station. My experience is entirely in favor of fall planting of most trees. I have found either one or two-year trees equally as good for planting in the orchard. Have planted both and can see little difference. Our trees are cultivated in a thorough manner two or three times the early part of the season, while they are yet young. After getting into full bearing my experience has been it is better to seed them down. We spray when necessary. The English Morello is more subject to difficulties with its foliage than others. We use bordeaux for this. We begin picking cherries about June 15th, but this depends on the season. The cherry crop is of a perishable nature, and with an unfavorable season we frequently lose more or less by decay.

People seldom appreciate anything they can afford.

Love usually renders a man color-blind as to complexions.

A lawyer's interest in a case depends upon the worth of his client.

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A first-class plow to subdue bogs and bushes or newly
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VAN DEMAN PAPERS

POULTRY AND FRUIT.

There are two branches of farm business that yield high net profits and which may be conducted together in harmony for the most part and under most conditions; these are fruit growing and poultry keeping. It requires a man or woman of more than ordinary intelligence and business ability to grow fruit to the best advantage, and the same is true of the requirements for a good poultry keeper. One must be wide-awake, patient, painstaking, resourceful, energetic and generally alert to take advantage of business opportunities if he or she is to make a real success in either calling, and when one has a proper amount of these qualifications to conduct one the same will be true of the other.

By working these two industries together it may be that one will succeed better at one time than the other and in this way afford a more steady revenue than would come from either one alone.

There are several branches of poultry keeping, such as the keeping of chickens, turkeys, ducks, geese and even guineas; and these may be again divided into egg production and meat production. There is ample opportunity for diversity in fruit growing as well; for one may follow apple orcharding alone, or grow several other orchard fruits, or add berry culture to one or more of those just named. In most cases it will pay to diversify to some degree, so as not to have "the eggs all in one basket." But there should be no guessing or indefinite, accidental ways of deciding what to do or how to do it. In my own experience the production of eggs has been far the most profitable end of the chicken business, and the Leghorn breeds the best of all in every way, even for raising young broilers for the home table.

There are very few fruit growers who do not have sufficient land to allow a wide range for poultry, and this is just what is needed for the cheapest and most satisfactory methods of keeping it. The peculiar conditions of the farm and the family must govern, at least very largely, what is done. It does not pay to overtax the abilities to carry to a success what is undertaken. It is better to attempt too little and do that well than too much and do it poorly. A few hens with plenty of room over which they can ramble almost at will are far more profitable than a big flock with scanty room. Whether it be chickens or other kinds of poultry they need ample range over which they may pick the tender grass and other herbage and forage for the bugs and worms that they need to balance their rations. It is the hen with plenty to eat and of varied food and much freedom that usually lays the eggs. The little chicks that have the same degree of generous treatment grow rapidly and make vigorous, healthy fowls. And as to turkeys, they need range almost without limit.

HOW POULTRY HELPS.

Nearly all kinds of poultry work into the economy of the fruit farm, or that portion of any place that is devoted to fruit culture, as insect catchers. They look into every nook and corner and sometimes scratch where we do not want it done, to get the least bug that crawls or flies. That they do some harm we will all agree, but they do a lot of good in this way. Guineas are the most industrious insect catchers on earth. They also pick up a great deal of their living from the fallen fruit that might

Cancer Cured by Anointing With Oil.

A combination of soothing and balmy oils has been discovered which readily cures all forms of cancer and tumor. It is safe and sure and may be used at home without pain or disfigurement. Readers should write for free books to the originators, whose home office address is Dr. D. M. Bye Co., Drawer 505, Indianapolis, Ind.

Making Money Grow

Is a trade just as much as growing fruit. It's easy if you know how. A Maine man made money fast. Every

HE EARNED \$220.00

And \$1,500 earned \$330,000.00 in 18 months in N. E. Paid in cash to small shareholders in Belfast, Maine—clerks, women, workmen, clergymen, farmers, etc. Straight honest business that beats Standard Oil for profits. You can invest \$1 to \$100, cash or monthly payments. Returns sure, harvest great, safe as Government Bond. Small investments in business paying large profits grow fast. Don't send us a cent. INVESTIGATE. A 20-page illustrated book, "A GUIDE TO FULL POCKETS."

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THE NUTRIOLA CO.,

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otherwise be largely lost by decay. Of course they are troublesome in the berry patches at certain times, but they can be shut up in case of necessity, until the berries are out of season. I have found by experience that hens well fed at the trough bother very little in the berry fields or elsewhere on the fruit farm. In the vegetable garden they are an almost constant nuisance, and I believe in either wiring in the gardens or the hens, and the latter one can rarely afford to do on a farm.

If poultry is kept on the farm in considerable numbers, say 200 or more, and fed liberally, as should always be done, the manure that can be saved and hauled out on the place will make a great difference in its fertility. I have bought and fed several hundred dollars worth of poultry food in a year, and the manure resulting from it had a marked effect everywhere that it was put.

The shade of fruit trees is very suitable and agreeable to the keeping of poultry, especially when it is young. Portions of apple orchards make the best of runs for the rearing of chicks, and so do other orchards. Plums are often grown with more success in poultry yards than elsewhere, because the curculio is kept down by the fowls, to some extent.

If the soil is plowed and otherwise tilled under the trees and in the runs, for the good of the trees, it is no disadvantage whatever to the poultry. Melon soil is a delight to everything that has feathers. They scratch and wallow in it to their own good and no injury to anything.

I have seen fruit farms where poultry houses were scattered over them, so that one flock would not encroach upon the territory of another. This is an excellent plan in some respects, for it is not well to crowd a large number of fowls in one place, if the best results are to be obtained. Some have movable houses, so they can be changed from one place to another. This gives the chickens fresh ground to work over and benefits the whole of the orchards more nearly equal than if the houses were permanently located.

Whatever is done in the way of combining fruit growing and poultry keeping should be begun in a moderate way and gradually increased. Experience will show the way to proceed. It will not take long to see what is or is not the better plan to follow. Rest assured that there is almost no limit to the market for good fruit and fresh eggs. Both are largely composed of water and do not deplete the fertility of the land on which they are produced. The business is interesting and highly honorable in both branches and is well worthy the best efforts of anyone who loves country life.

H. E. Handman.

Ordering Goods by Mail.

Last year when I was resting in the Adirondack mountains the owner of our cottage wanted to buy a tent. The first thought was to send to one of the large Chicago mail-order houses for this tent. How many people there are through the rural districts who send their orders by mail to well known establishments enclosing the money or the postal order, or the express order to pay for the same, feeling assured that they will receive promptly the item ordered and that they can secure it at as low a price as though they had visited in person the store and made the selection. There are many ladies who order their dresses, bonnets, shoes and other wearing apparel of large mail-order houses in New York and elsewhere, and many men who thus order their clothing who are perfectly satisfied with the results. In old times those who desired to plant trees or vines waited for the nursery agent to call at their houses. Now, instead of paying \$1 each for a tree, vine or rose bush the intelligent purchaser sends his order to some well known nurseryman direct, thus securing for \$5 which might through the agent have cost him \$10.

"Twas off the blue Canaries
A glorious summer's day,
I sat upon the quarter-deck
And whiffed my cares away;
And as the volumed smoke arose
Like incense on the air,
I heaved a sigh to think, in sooth,
It was my last cigar.

I leaned against the quarter-rail
And looked down in the sea;
E'en there the airy wreaths of smoke
Were curling gracefully.
Oh, what had I, at such a time,
To do with wasting care?—
Alas! the trembling tear proclaimed
It was my last cigar.

Greece is only a small spot on the world's map, but she produces more and better currants than any other country. The crop for 1903 amounted to 250,000,000 pounds. The imports of this fruit into this country from Greece the same year amounted to 33,878,309 pounds. But for this Grecian fruit what would we do for fruit cake on Christmas and other festive occasions?

Things That Never Die.

By Charles Dickens.

The pure, the bright, the beautiful,
That stirred our hearts in youth,
The impulses of wordless prayer,
The dreams of love and truth;
The longings after something lost,
The spirit's yearning cry,
The striving after better hopes—
These things can never die.

The timid hand stretched forth to aid
A brother in his need,
A kindly word in grief's dark hour
That proves a friend indeed;
The plea for mercy softly breathed,
When justice threatens nigh,
The sorrow of a contrite heart—
These things shall never die,

"Uncle Phil, when you were a boy and went to church did preachers tell what they didn't believe?"

"No, the preachers left that to the infidels. They preached what they believed."

"But, Uncle Phil, did you have higher critics then?"

"Hired critics? No, they didn't hire men to criticise the Bible, but to preach it."

"Did any of the preachers tell you that there was no devil?"

"No, indeed. It was no use. There was always somebody around to raise him."

"When you were a boy, Uncle Phil, did you hear them saying that there never was a Moses?"

"No, boy, I never heard of anybody who wanted to get rid of Moses except old Pharaoh, and he seemed to have it bad."—Advance.

Two watermelons cannot be held under one arm.—Turkish Proverb.

Paint Without Oil

Remarkable Discovery That Cuts
Down the Cost of Paint Seventy-
Five Per Cent.



The Discoverer of Powderpaint.

A. L. Rice, a prominent manufacturer of Adams, N. Y., has discovered a process of making a new kind of paint, without the use of oil. He calls it Powderpaint. It comes to the farmer a dry powder, and all that is required is cold water to make a paint weather-proof, fire-proof and as durable as oil paint. It adheres to any surface, wood, stone or brick, spreads and looks like oil paint and costs about one-fourth as much.

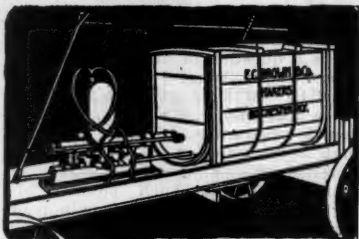
Write to Mr. A. L. Rice, Manufacturer, 390 North St., Adams, N. Y., and he will send you a free trial package, also color card and full information showing you how you can save a good many dollars. Write to-day.

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Active, reliable lady agents to sell our perfect fitting, custom-made petticoats. Excellent returns. Address, Parisian Co., Box 3748, Boston, Mass.

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Nothing short of the strictly power outfits approaches the efficiency of this hand power sprayer. Operating the "Hydraplex" pump is like play. A boy easily keeps a dozen nozzles going, spraying 200 trees an hour. Brass working parts avoid corrosion. Valves and packing all exposed. Delivers spray as fog or mist and works at HIGHEST PRESSURE. Sold separately or with our cypress 150 gallon tank, dirt proof, with outside strainer and mechanical agitator. May be used with any tank or barrel. The only hand power sprayer for large operations. We manufacture the largest line in America of high grade and power sprayers. Write for free catalogue of all sprayers and appliances. E. C. BROWN & CO., 265 State Street, Rochester, N. Y.



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Standing on the ground the operator can cut from distance of arms length, to a height of 18 feet, according to the length of pole, the smallest twig or a branch an inch in diameter. Most convenient to use. Sure to do its work well.

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WE GUARANTEE our FARMER'S FORGE to be as large and do as much work as any \$10 Forge made, and as represented or refund your money.
Extracts from Recent Testimonials:
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A. L. WILKINSON, Middleboro, N. Y.
Regular price of Forge \$8.50, but until March 31, 1904, we offer the FARMER'S FORGE, complete, ready for use, for \$3.75 each, or a Farmer's Forge, complete, an anvil and vice combined and a pair of tongs, all for \$6.50. This offer may not appear again. Write today sending stamp for catalogue and testimonials.
C. A. S. FORGE WORKS, Saranac, Mich.

What Would It Profit Man?

For Green's Fruit Grower by Walter Scott Haskell.

The bare brown hills above the sleepy town;
The hazy sky, the sun's rays slanting down;
The lazy train, with engine's whistle harsh,
As slow it wends across the distant marsh.

From dusty road, a traveler views the sights,
Looks, and dreams, then, with pen his thoughts he writes.

What though he dreams, what though he writes of skies?
Of bare brown hills above where city lies?
Do we who scan his written page know more?
Who read his thoughts, profound with hidden lore?

If we have mind to grasp the thoughts he gives,
The thoughts in him, in us again may live;
But if, perchance, we lack his sense, at best;
We cannot know, his words can but suggest.

Though wisdom deep, upon life's pages lie,
Till worm break chrysalis, it cannot fly.

The Grace of Courtesy.

Written for Green's Fruit Grower by G. B. Griffith, E. Lempster, N. H.

The grace of true courtesy is perhaps never more conspicuous than in the reception to visitors. The ill-bred or vulgar woman has two sets of manners; and treats those whom she admires or wishes to honor with excessive cordiality and cringing politeness, while toward those whom she considers beneath her she assumes a manner of patronizing kindness, or treats them with frigidity and haughtiness. Such people are rightly termed "snobs."

Courtesy in either sex is commendable. "If a civil word or two will make a man

showy dress, and ornaments in public, and especially in church.

Quietness, gentleness, and kindness, are among the essentials of good breeding. The true lady receives her visitors without fuss or pretense, and with a cordiality that corresponds with the size of her heart. In fact, courteousness lies in a due regard to the feelings of others, and is a Christian duty of man or woman. St. Paul enforced it by his precepts, and illustrated it by his example. The whole tone and tenor of the Bible indeed teaches us to be courteous as well as kind.

How to Please Her.

A woman likes to be truly loved and to be told so.

She likes some noble, honorable man to be thoughtful of her, kind and considerate of her welfare.

When well and becomingly dressed, a quiet notice of it is always appreciated.

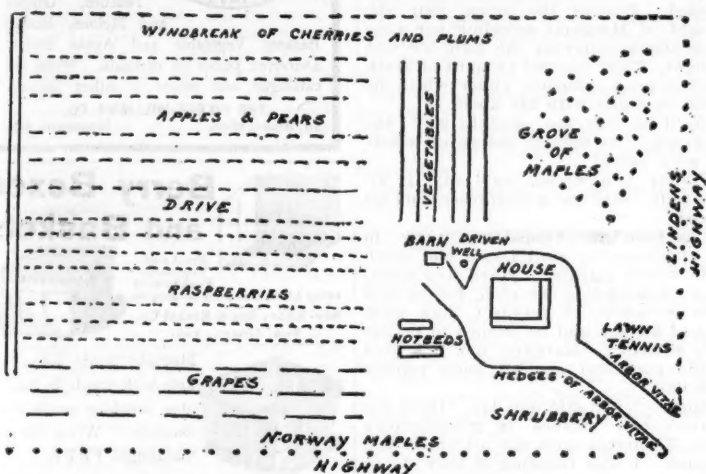
A word of praise for a nice dinner or supper often more than compensates her for the worry and work of preparation.

She wants her husband not only to be her supporter but her companion, remembering that it is the kind word that often brings her greater happiness than a new set of dishes, though presents like the latter are always welcome.

She likes to be made to realize that she is good for something besides a mere household drudge.

She likes to be petted occasionally, but not in public. The little private pet names are very dear to a woman's heart. —McCall's Magazine.

A German chemist describes a new cement, composed of casein and some tannic acid compound, that becomes very hard when dry, and is then insoluble in water, oils, petroleum, etc. In



A. SELF SUPPORTING COUNTRY HOME.

Readers of Green's Fruit Grower often ask for designs for laying out home grounds. Many of our readers are building new houses or establishing new country homes and desire information. We re-engage by permission from New York Tribune, the above design intended for the country home that will grow enough fruits and other products to support a small family with money from sales. Our readers who are intending to plant trees, vines, etc., on their established home grounds will get suggestions from the above design. In front of the house is a spot of ground marked shrubbery. I should advise great care in planting this shrubbery so as to leave an open expanse of lawn in front of the house with the shrubbery clumped together at one side of the lawn. I would not carry the hedge that is intended to border the drive, in front of the house, nor would I plant trees in front of the house that would obstruct attractive views.

happy," said a French king, "he must be wretched indeed who will not give them." Very aptly has Cawdray expressed it: "As the tree is known by its fruits, the gold by the touch, and the bell by the sound; so is a man's birth by his benevolence, his honor by his humility, and his calling by his courtesy."

There is never the slightest excuse for incivility, even if the guest be a bore, or not particularly congenial. The true lady or gentleman receives all visitors with courtesy. The mistress of the house not with a kiss of pretended affection, nor with a formal, frigid bow of chilling politeness, nor with a broad grin of pretended pleasure upon her lips, or assurances of welcome which she does not feel, but always with a bow that implies respect and kindly feeling, a smile in the eye, and with no thought of self. For, after all, true courtesy is really the art of forgetting ourselves and living for the time in those around us. The pretentious man or woman is always vulgar.

Alexander the Great got the hearts of his foot-soldiers by calling them his fellow footmen. Aristotle, the better to insinuate into his hearers, read not to them, as others philosophers used to do, from a lofty seat or desk, but walking and talking with them familiarly, as with his friends, in Apollo's porch, he made them great philosophers. Vespasian was as highly esteemed by the people for his courtesy as Coriolanus contemned and condemned of all for rusticity. The well-bred woman avoids making herself conspicuous in any way. She shrinks from loud talking, laughing, or anything that might attract attention. She avoids lawdory finery, and

preparing it, calcium tannate may be obtained by adding clear lime water to a tannin solution until no further precipitation occurs, then pouring off the liquid and drying the precipitate. The calcium tannate is mixed with casein in proportions ranging from 1 to 1 up to 1 to 10. The dried mixture is reduced to powder, which is ready for use on adding water to any desired consistency.

A woman in business is natural as a man rolling a baby carriage in the park. Anyway, a bachelor doesn't bore everybody to death telling what smart things his children say.

It is a great comfort to a wife to feel that if she had married better than she did she might not be as good a woman as she is.

Some men are so tactful they smoke the cigar their wives buy them for presents.

Women tell jokes the way children play button, button, who has got the button—to see if anybody can find it.

A woman likes to be suspicious of her husband so she can feel happy when he convinces her she oughtn't to be.

The meanest thing that can happen to a woman is when her new gown comes home to have it storm all day so she can't put it on and call on every woman she knows who hasn't got a new one.—New York Press.

Father (sternly)—Didn't I tell you if any of the other boys said anything to make you angry you should count twenty before you said anything?

Tommy—Yes, sir; but I didn't need to say anything. Before I'd counted twelve the other boy yelled "Enough."—New York Press.

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Strong Growing

They'll be the best fruiters when grown. Blood tells in plants as well as animals. I grow on my own farms in the best fruit soil and climate in the world, everything I sell. If you are looking to future luxurious bearing, there is no stock grown that is so sure to please and produce profitably as

Wood's Small Fruits.

They have health, rooting, growing vigor and are bred with strongest fruiting qualities. I make a specialty of Strawberries, Blackberries, Raspberries, Dewberries, Currants, Grapes and Garden Roots. Also limited but unsurpassed stock of Apples, Peaches, Pears, Plums, Cherries and Quinces. Don't place an order until you have my free General Fruit Catalogue. Also ask for free circular of Twelve Special Fruit Offers. Choose fruit groups for every garden at reduced prices. **ALLEN L. WOOD, Wholesale Grower, Rochester, N. Y.**

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8 STYLES SEEDERS Double or Single Wheel Hoe, **6 Tools in 1.**
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WHEEL PLOWS with cultivator, rake and hoe attachments. For garden and poultry yards.
NOTE High Arch and Plant Guards. Bent Oak Handles on all Tools.
Details on full line tools in 1904 free catalogue. Write for it.
AMES PLOW COMPANY, 23 MARKET STREET, BOSTON, MASS.

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Manure Spreader
is the only Spreader **ENDLESS APRON** and made that has an many advantages which it possesses. It's always in place and ready to receive the load without any turning back either by hand or complicated, easily broken machinery. The front and rear axles are of same length which, with the **Broad Tires Prevents Rutting** of fields, meadows, etc. and makes wet, dry, frozen, light, chaffy, packed or caked, spreads lime, plaster, wood ashes, cotton-seed and hulls, etc. Can be changed instantly to spread thick or thin while the machine is in motion—8 to 26 loads per acre. **END GATE AND BEATER AND HOOD PROTECTOR IN USE.** Made of best material and sold under a **POSITIVE GUARANTEE** as to quality, capacity and durability. All parts breaking within one year will be replaced without charge. Write for free illustrated and Descriptive Catalogue—the best and most complete spreader catalogue ever published.
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NO INVESTMENT AS SAFE, PROFITABLE AND LASTING

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High-Grade Flower Seeds.

20 Packages 10c.
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KIND.	10	KIND.	10	KIND.	10
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An ideal hedge as a wind break or from which to turn any kind of stock. Bears fruit equal to currents for making jelly or wine. Beautiful when trimmed as an ornamental hedge. Hardy, grows fast, grows anywhere in any soil. Free catalogue gives full description. One sent for 10c. postpaid.

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Strawberry Plants and Seed Potatoes.

You can make more money if you plant intelligently. Write and tell us about your soil. We'll send you our Free Descriptive Book. Over 100 varieties.

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Try the New Majestic Tomato

This grand variety we claim to be the largest and most productive kind in existence. It yielded 1160 bushels per acre on our place last season, grown under ordinary conditions, and will, we believe, double it by special culture. The fruit is not coarse and rough like other large sorts but of fine shape and unsurpassed quality. The seed is scarce this year and sells at 40 cents per packet of 100 seeds. We desire, however, to place our catalogue in the hands of everyone who has a garden and have decided to send a trial packet of 25 seeds FREE if you mention paper in which you saw this advertisement.

\$100 in Cash Prizes
\$35 for largest tomato grown, \$10 for largest yield from one plant, \$35 for best photograph of a plant. Postals bring 10c worth of seed, a chance to win a valuable cash prize and the finest seed catalogue published. Our Iowa Seedstore surpassed 100,000 seeds.

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Des Moines, Iowa.

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The New Farmer.

By Pearl Ullila Davis for Green's Fruit Grower.

There's a mighty lot in farmin' Thet a feller's got to know. Ef he wants to keep from harmin' All the stuff he has to sow. First he's got to have good horses,— Ten to one, they'll kick an' balk; Then he takes his last resources Tryin' to make the old horse walk! And he's got to have good ground to Plow and sow his seed into, Or he'll find that pesky weeds do 'Nough to make a feller blue.

But you bet when once he's started, An' the grain comes up so green,— He and hopelessness have parted,— Proudest man you ever seen! Talks to all the neighbors like he Was the richest man around; Gits to courtin' old man Janie's Daughter in the nearest town. Soon he up an' marries, comin' To his home to make 'em look; Then he slyly tells 'em that he Married jest to git a cook! That man, you see, Was me!

Possibilities of a Quarter Acre.

ACTUAL EXPERIENCE STRUGGLING WITH ILL HEALTH AND POVERTY.

Written by a subscriber of Green's Fruit Grower.

"Well, mother, school's over for this term and I'm glad!" said Margaret Ellis as she entered their cosy home one dreary February day. "My head aches, my back aches; in fact I seems to be one great ache," and she dropped wearily into a chair.

Mrs. Ellis looked at her daughter, her face changing quickly from glad welcome to one of anxiety, as she noticed how careworn she looked. "You have been working hard this week. You must try to take things easy," she said. "Yes, I'll try," said Margaret. "All our debts are cancelled and the house rent paid for another month. Besides, I have saved two months' salary. Have the children come in from school?"

"No, but it is almost time," said Mrs. Ellis. "Lie down awhile and I will get tea."

A hub-bub arose in the hall and with the cry, "Margie's come!" two lively figures ran across the sitting room and Margaret found herself almost smothered with loving hugs. "Oh, Ellie, Mark, don't strangle me!" she cried. "Go look in my lunch basket." Rush for the basket and in its was found three great red apples.

"Let's go to the kitchen and let Margie be, she's tired," said Mark. The children left the room and Margaret was thankful to be alone. Ever since her father died, the October before, she had been the main support of the family. Mrs. Ellis, who was rather delicate, did mending for many neighbors. Waterville was a thriving manufacturing city and a great many of the women, as well as the men worked in the mills and factories. They were therefore, glad to get the mending off their hands. Mrs. Ellis earned enough some months to pay rent. This was a source of satisfaction to her, as she felt that the whole support was too much care for Margaret. She was only eighteen. It was her first school and she received but thirty-five dollars a month. The six-months term was ended and Margaret was very tired. She was successful but inclined to worry over trifles. The school was three miles out of town, and until December Margaret boarded at home. After that she came home on Friday evenings, leaving Monday mornings.

"Do you want your cup of tea there or will you come to the kitchen?" asked Mrs. Ellis, putting her head in at the door.

"Here please," said Margaret, wearily. "I don't want anything to eat. I'll go to bed as soon as it is dark." She sipped her tea and set the cup down. "I'll go to bed now," she said, "I need a good rest."

Mrs. Ellis went with her daughter and assisted her to undress. She filled a hot-water bag and put it to her feet for she was shivering. She covered her and softly closed the door.

"What if I should lose her!" she thought. "But I must not worry but work."

The next morning the mother's fears were realized. Margaret was ill and Dr. Brown was sent for. He pronounced the trouble nervous prostration, and for the next two weeks Margaret battled for life. The neighbors were kind and helped in many ways. Ellie, who was only nine, developed into a neat little hand-maiden; while Mark, three years older, subdued his boisterous ways and did all errands cheerfully. He would feed the chickens, carry in the coal, wipe dishes for Ellie and even made his own bed. Mrs. Ellis learned in that anxious time that her children could be a great comfort to her. Her relatives all lived in a distant state but her husband's people were kind. Her brother-in-law would bring her things from his own

scanty store, for he was poor and had a large family. Grandfather Ellis, a hale man of eighty, would often come along for he lived with his son James. He owned a trim little house with a quarter of an acre of ground in the village of Norfield near by.

Margaret mended slowly. One sunny day in March she was lying on a couch. Near her sat Mrs. James Ellis. "Yes," Aunt Laura was saying, "I have been getting plenty of eggs and several of my hens want to set, so I set three for myself and one for you, and your hen came off with twelve chicks. I'll bring 'em the next time I come."

"I am much pleased," said Mrs. Ellis. "Four of my hens have stopped laying and want to set. I have only two that now lay."

At that moment Grandfather Ellis came in. "Mary," he said to his daughter-in-law, "I'm proper glad dinner's ready for I'm as hungry as a wolf."

They all drew round the table but Margaret. She said she was lazy and would rather eat her dinner in the sun. "Haukins moves off my place next week," said the grandfather, referring to his tenant. "He's going to farming. Jim and me was 'lowing that mebbe you and Margaret would like to keep house for me a spell. Mark could help his uncle this summer and he'll give him two dollars a month and his board. In my young days that was thought good pay for a boy of twelve."

Mark's face fell a little but Mrs. Ellis looked glad. She had been thinking of the house rent to be paid for the long spring and summer. Dr. Brown had peremptorily demanded Margaret to give up all thoughts of teaching the coming year. "You must live an outdoor life all the year, and do some light work inside in the winter." Therefore, Mrs. Ellis was delighted with his plan for it solved several difficulties she had dreaded. Besides the house rent she thought of Margaret spending her time out-of-doors, enjoying the pure air and sunlight. Then too, she thought of Mark and the good influence under which he would be while with his uncle.

"We'll be only too glad to go," she answered. "As soon as Margaret is better we'll move."

"To-day two weeks, we'll say, if all goes well," said the grandfather, and all agreed. They took their departure early in the afternoon for aunt Laura had much to do before nightfall. Mark was somewhat reconciled to the plan, for he was more grown-up in intellect than most boys of his age and he seemed to realize their situation. Margaret too, was glad of the plan and mended more rapidly each day.

"Mother," she said one day, "there are fourteen rose bushes in grandfather's yard. I counted them one afternoon last summer. I was thinking if they do as well this year I can dry some rose leaves and sell them. I know of a drug firm in New York that buys them. I'll get a little money in that way to help along."

"It will be also good for you to attend to them," said Mrs. Ellis. "Grandfather once said he planted every available inch each year. Mr. Haukins did not follow in his footsteps but he did take care of the fruit trees, strawberry bed and other plants he found there."

"What fruit trees are on the place?" asked Margaret.

"There are three cherry trees, three plum, two pear and five peach trees, a mulberry tree and two grape vines."

"Shall we become peddlers and dispose of our truck and fruit?" asked Margaret.

"Why not?" replied her mother. "It is honest and healthful. Grandfather owns a fine Jersey cow, four years old, and she has just 'become fresh.' We can sell milk to the villagers; very few of them keep a cow. I'll try to get uncle Jim's horse and spring-wagon once a week to bring produce to Waterville. Most of the neighbors will buy of me and I shall mend and darn for them as usual."

"Hasn't grandfather two stands of bees?" asked Margaret.

"Yes, and he understands caring for them," said Mrs. Ellis. "He told me he took over a hundred pounds from each hive last year."

"I shall plant white clover and many sweet flowers," said Margaret. "I shall enjoy it all so much."

"Grandfather said the strawberries last year were fine. The bed is not large, about ten by twelve feet, but Mrs. Haukins said they picked six or seven quarts every day for nearly three weeks. Before and after that time they picked two quarts each day."

"Aren't there raspberries and currants along the fence?"

"Yes, there are five currant and two gooseberry bushes. There is a long row of raspberry bushes which grandfather re-set two years ago."

"Mother, I am wild to leave. Can't we move soon?"

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published at St. Joseph, Mo. will be sent 1 year if you send \$1.00 and name of 10 farmers who grow fruit. "The Fruit Grower" is the best fruit paper we have, East or West.—Prof. Price, Dean Ohio Agri. College, Illustrations. Regular price \$1.00 a year. For sample address FRUIT-GROWER CO., 3015 7th St., St. Joseph, Mo.

"I hope so, and as soon as we are settled I want to bring grated horse-radish, rhubarb and asparagus to town. There is a nice horse-radish bed near the pump. The asparagus bed is large and that long row of rhubarb will sell well."

"O mother," cried Ellie with shining eyes, "guess what we've got to show you. Chucky's got eight chicks and I believe there'll be more to-morrow."

And there was. Not only Chucky had eleven chicks in her nest but all three of the others had chickens. By the end of the week there were forty-six little black and yellow balls of down in the coops in the back yard. Ellie attended to their wants with untiring devotion.

"I'm going to be a chicken-raiser when I'm a woman," she had said.

"I paid the doctor and other bills this morning and have just twenty dollars left," said Margaret. "I have that, some good clothes and my wheel to show for by winter's work. Mother, have you ever thought how many of the factory people carry lunches each day? Why can't we make pies as large as a saucer and charge seven cents apiece for them? We could make this a sort of side issue to our gardening. I could make a big cake each week and you could sell it by quarters or halves."

Continued in next issue, telling how the family moved onto a little country place and succeeded in securing money and health by fruit growing, poultry and other pursuits.

Tea Table Epigrams.

Nervous dyspepsia is one of the symptoms of plutocracy.

One way to keep peace in the household is to forget what you intended to say about the steak.

If the baker sends you an overmeasure of cakes, have him arrested for lunacy.

A saline solution of griddle cakes doesn't constitute a salt and batter-y.

When the coffee won't settle, a man thinks he has good grounds for a kick.

It is time to leave the table after the tea leaves.

If every man got his desserts he would be kept too busy to worry about the soups.

A man never knows the value of a wife until he has to get up his own laundry. It's a mighty poor way of showing partiality to save up all the wings for the star boarder.—What to Eat.

A Green-Crop Farmer.—An Iowa farmer received a free package of seed from the United States Agricultural department. He read the franked envelope notice of "\$300 penalty for private use." He wrote Secretary Wilson protesting the "exorbitant prices charged by the government for its free seeds," and further explained: "I cannot put the seeds to public use and cannot afford to pay \$300 for using them myself." Of course, it was explained to him the penalty referred to the private use of the franked envelope only. This farmer should confine his efforts strictly to raising green crops.

She was city bred, and had the usual fear of cows.

"Why," she asked, when the danger was past, "did you take me across this lot?"

The small country lad chuckled.

"I thought it would be fun," he said, "to see you try to climb a tree." Then after another chuckle: "And it was."—Chicago Post.

The girls are watching the passers-by and commenting upon them.

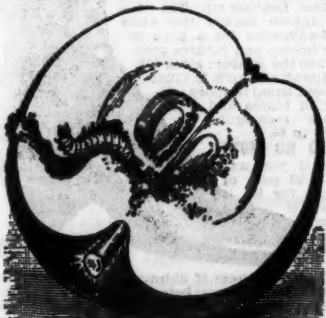
"Here comes young Bustly," says the first girl. "It's too bad about him. He has a Christmas-card income and diamond-ring taste."

"Yes," answers the second, "and there goes old Closun. He has a diamond-ring income and Christmas-card taste."

A blanket mortgage will not keep a house warm in zero weather.

SPRAYING FRUIT TREES.

The question of spraying fruit trees to prevent the depredations of insect pests and fungus diseases is no longer an experiment but a necessity.



Our readers will do well to write Wm. Stahl, Box 4, Quincy, Ill., and get his catalogue describing 31 styles of Spraying Outfits and full treatise on spraying the different fruit and vegetable crops, which contain much valuable information, and may be had for the asking.

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buggy with any color gear wanted, with the body plain or fancy stripes, with three or four top, high or low wheels, arched or dropped axles, wide or narrow body, different design of upholstery in cushion and back, in fact, can make any reasonable changes that may be desired, finishing the buggy to order, shipping promptly and guaranteeing perfect satisfaction.

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Bubbles.

Free silver—gray hairs.

On the quiet—an illicit whisky still.

A hitching post—the wedding altar.

In the best of trim—expensive millinery.

The dentist generally believes in first impressions.

A dead fire is sure to be found out.

Even some Paris-made gowns are

Worth-less.

Needles are often needless in times of need.

The opening dance generally starts the ball a-rolling.

The fencing master does not give instruction in picket duty.

An "old hen" of a woman is not always chicken-hearted.

The brakeman may not feel at home among the breakers.

A man can't get ahead of time by putting his watch in his hip pocket.

Some so-called boarding houses deserve to be boarded up.

The baker usually has lady fingers on hand.

When the bridal couple turns to leave the altar that's the turn of the tied.

A man feels the worst when another man gets the best of him.

Though he may not be a curio collector the bank cashier looks out for that which is "queer."

She doesn't use slang, but, you see, she's engaged.

To a very nice man—a New Yorker; He's employed in a bottling establishment, so

It's not slang when she says, "He's a corker."

—Philadelphia Bulletin.

The Beau Brummel of Seventh avenue

had accompanied the colored young woman to the shoe store, where she desired to make a purchase.

"What number of shoes do you wear?" the salesman inquired.

She glanced at the young man apprehensively. He was so near that he could not fail to hear the answer. Then she said to the clerk:

"Dat soun's like er foolish question ter me."

"But it isn't, I assure you."

"Well, den, ef you gotter have an answer, de number ob shoes I wah is two, same ez anybody else. Did you fink I hab er wooden laig?"—New York Press.

If your guests fare ill with you they are apt to say farewell to you.

Lots of things he doesn't want comes to the man who is impatient.

When a man is popular only with widows he isn't anybody's first choice.

Fortunately for stupid people, the weather changes often enough to supply them with something to talk about.

If free advice were half as valuable as the giver would have you believe he would be too busy counting money to hand it out.—Chicago News.

Father—It's singular that whenever I want you to marry a man you object, and whenever I don't want you to marry one you straightway insist on it.

Daughter—Yes, dad, and whenever we're agreed the man objects.

His Wheels Don't Track.

Ol' Sam Jones he ust to say,

"As shore as fate

The only way fer to git ahead

Is to go it strate.

There's many a feller in this here worl'

That goes to wrack,

For the simple reason he don't run true—

His wheels don't track.

"They's some whose front wheels run fust

rate—

Their words air fair;

And yit ther hind wheels o' action ain't

Jest put on square.

They's a twist someway in the way ther

made;

They's sompin' slack.

So they mark a crooked trail through life—

Their wheels don't track.

"They ain't no room for the wobbly kind;

They're a trifle slow.

Ef ye git ahead in the race o' life,

Ye've got to go.

Ye've got to whip, and ye ain't got time

Fer looin' back;

And ye can't win out ef ye've got a rig

Whose wheels don't track."

—N. E. Homestead.

Girls Do the Wooing.

Not everywhere do the boys do the

wooing, says the Chicago "Tribune."

Among the gypsies of Moravia, for instance, none will dare to presume to

court a maid until she has notified the young man of her choice her readiness.

This she does by using a cake as a love letter, baking therein a coin, and throwing it within his tent door at night when he is alone. He, of course, is not bound to accept. But if he does it behooves him to be faithful. The Romany of Hungary knows naught of breach of promise suits. Instead, the relations and friends of the jilted maiden wait upon the inconstant lover, argue with him, plead with him. Then, if he still remain obdurate, he is maimed by a shot in the leg or arm.

By ancient Romany custom, too, the slighted girl has the right to be present and to decree in which of his limbs he shall be wounded. In practice, however, she usually elects to stay away, thereby leaving the fearful choice to him.

A marriageable Burmese girl as soon as she has completed her trousseau

places in her window the "love lamp," and according to whether its interjecting beams, carefully directed from behind with her own tiny toilet mirror, shine on this hut or on that the gallant within knows that somewhere a lassie's heart is inclined toward him.

Chicken Croquettes.—Minced cold

chicken and about one-quarter as much bread crumbs, gravy or drawn butter

enough to moisten, and one egg, pepper and salt and chopped parsley to taste.

Make into rolls and roll into flour until well covered; then fry a few at a time

in half lard and half butter until a delicate brown. Serve in a heated dish, with cress or parsley.

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highly. You have
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tried had com-
pletely failed.
The doctors all
said that she
could not be
cured, also that
she would never
be right in her
mind because
the fits had per-
manently injured
her; but thank God,
they did not know
for you have
completely re-
stored her."

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mental weakness of any kind, you should make a thorough
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Send enough for quilt 50c. Hand-
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MILL, Box 21, Jersey City, N. J.



A HEALTHY FAMILY CONTINUED.

Second Sk. I used to know a family
strictly in contrast with the one you
have described which was always hav-
ing someone sick in the house. A phy-
sician was always continually employed
looking after the sick ones of this
family. Although these people were
in straightened circumstances, they
were compelled each year to pay out
several hundred dollars for doctors' bills.
In addition to this they were con-
stantly buying patent medicines. They
had with them a little fellow by the
name of Fred who was a sort of adopted
son. This boy was once sent to the vil-
lage, a mile or two away, on an errand
and when he arrived at the store he had
forgotten what it was he was sent to
purchase. After racking his troubled
brains for sometime he hit upon pare-
goric, for the simple reason that he had
been sent for paregoric more often than
any other item.

First Sk. What was the diet of this
family?

Second Sk. Their table was filled with
those things that were desired by var-
ious members of the family without re-
gard to their healthfulness. They were
great eaters of candies, cakes, pies.
Their children were constantly seen with
a cookie or friedcake in their hands be-
tween meals.

First Sk. Was this naturally a
healthy family?

Second Sk. Yes, reasonably so. One
cause of so many ailments was that the
father and mother did not study hygiene,
and did not realize the necessity of care
in eating and in the selection of health-
ful foods. They were thoughtless about
other matters which have bearing up-
on good health.

First Sk. It is surprising what
changes can be made in an individual
or family by studying the laws of
health and applying these in daily life.
Take for instance the question of pure
air. No animal can have pure blood or
enjoy good health and long life that
does not take into the lungs a continu-
ous supply of fresh air.

Second Sk. Fresh air is no more im-
portant than free consumption of pure
water. In old times children were cau-
tioned not to drink too much water, par-
ticularly during the heated periods of
summer time. Water was thought in-
jurious by many. When people were
sick with typhoid or other fevers, and
the patient would give a dollar for a
mouthful of cool water, it was with-
held. Of late years a great change has
occurred in medical practice. Now
water is freely administered in health
and in nearly all diseases. We are urged
in health to drink at least a quart or
two of water a day, by drinking a glass
or two on rising in the morning, another
glass in the middle of the forenoon, a
glass or two during the afternoon and
if possible a glass or two just before
retiring at night. Truly the world is
growing wiser every day.

First Sk. Dress is an important affair
as regards health. Many people do not
dress warm enough while many others
wear excessively warm clothing, which
is debilitating. There was a time when
every farmer and many other people
wore fur mufflers about their necks.
These mufflers destroyed thousands up-
on thousands of lives. They were ex-
cessively warm, causing perspiration.
The least exposure after the fur was
removed would produce a severe cold.

Second Sk. I know of a man who was
made bald headed by wearing an \$18
sealskin cap. This cap was very com-
fortable during a cold ride in winter,
since it could be pulled down over the
ears and neck, but the owner was
obliged to wear it during visits to stores
or warm places, and this would cause
perspiration which started the hair to
coming out and baldness ensued. A
sealskin fur cloak is an attractive gar-
ment for a lady, and is not too warm
when worn during a sleigh ride, but the
trouble is that she wears this garment
not only when outdoors in winter but
when doing shopping in the hot stores,
during which time she is excessively un-
comfortable (overwarm) and thus ex-
poses herself to the cold when she again
steps outside.

First Sk. Many people do not ap-
preciate the fact that different kinds of
food should be eaten during summer
from that eaten during winter. The
Esquimaux who inhabit regions not far
distant from the north pole live almost
exclusively on the fats of animals. They
can even drink oils without injury, since
such substances are needed far north to
supply the body with heat. But if these

Esquimaux should consume such quan-
tities of fatty matter in a southern cli-
mate they would soon destroy them-
selves. Our food during the warm
months should be light and easily di-
gested. In winter we can eat with im-
punity more substantial and fatty
foods.

Second Sk. Deep breathing does much
to induce good health and longevity.
Since it is difficult to breathe deeply by
effort of will when not exercising. It
is much better to take long walks, when
deep breathing will be forced upon the
walker. Not only this but the air taken
into the lungs while walking outside
is much purer than that taken when
confined in houses.

Bad Habits of Horses.

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ing Co.

Hysteria in Horses.—It not frequently
happens that people owning highly-bred
horses are puzzled and annoyed by a
vice—usually shying or bolting—which
is manifested only occasionally. A horse,
for instance, is thoroughly accustomed
to automobiles and you have driven him
on perhaps twenty occasions when he
has shown no fear of them. But on the
twenty-first he evinces the most extreme
terror, shying badly, or perhaps even
bolting over the roadside wall. That
the fear is genuine is evident to an ex-
perienced horseman, and the vice be-
comes tenfold worse in that we never
know when to expect it.

This vice (for which the horse is not
to blame) is really an hysterical out-
break, and though the shyer of this
class may be held in check at the time
by some such device as the controller,
we must, in order to effect a real cure,
go beyond any mere coercive treatment
and look for the cause of the trouble
where it really is—in the nervous system.
The way in which this nervous disorder
operates may be illustrated by a phase
in human nature familiar to all.

A boy is afraid of the dark, although
he knows his fear is foolish and that
there is nothing to hurt him. He goes
into a dark cellar twenty or thirty times,
always holding his insane fear in check
by an effort of his will. But here comes
a time when, his nervous mechan-
ism not being in as good order
as usual, his fears get the best of
him and he makes a mad rush for the
door. He knows there is nothing in pur-
suit, but he has lost his self-control
and he is in as abject fear as though
menaced by a real danger.

The case of the neurotic shyer is of
like kind. The horse has learned that
the object he once feared will not hurt
him, but the association of ideas is such
that a slight effort of his will is neces-
sary, each time he passes it, to hold
his fear in check. But on some day
when his nerves are a trifle out of order
even this slight effort becomes impos-
sible.

I have owned and also treated for
others a number of neurotic shyers and
bolters, and they were all either thor-
oughbred or having a large percentage
of thorough blood. The trouble is not
one that cold-blooded horses are liable
to.

This vice is of so peculiar a nature
and so many horses are never cured of
it—at least during the best years of
their lives—that its cure might seem, at
first blush, a difficult matter. But once
understood, there is no trouble in effect-
ing a cure, and the treatment is ex-
tremely simple, consisting only in work
—work and plenty of it—accompanied by
judicious feeding. I do not mean exces-
sive or unduly hard labor, such as
"breaks the heart" of a horse, nor oc-
casional severe journeys followed by a
period of rest; but daily, unrelenting
work in harness or saddle, or even light
farmwork, such as plowing old ground,
if the horse is large and strong enough.
Whatever the work is, let it be done
every day—and depend upon it this, with
a little more attention to feeding, will
effect a perfect and permanent cure.

That the reasonableness of this treat-
ment may be fully understood, let us
look for a moment at the nervous sys-
tem of the highly-bred horse and what
purpose it serves. This nervous system
—far more highly developed than in the
cart-horse—is what gives him his re-
serve force, his staying power. It is
not bone and sinew that keep him going
at the end of a hard race, but nervous
energy. The common horse gets tired
and quits; the thoroughbred also gets
tired, but he keeps on.

This wonderful piece of mechanism
gets out of order in a horse dawdling in
stable or paddock; it has no scope for
the function which nature intended. But
give the horse plenty to do and his ner-
vous machinery again becomes healthy
and run smoothly, with no jerks or
kinks.

Of considerable importance in neurotic
cases, though secondary to the treatment

I have named, is right feeding. The
chemical element that nourishes the ner-
vous system is phosphorus. Therefore,
when the nervous system is performing
its proper work there is little danger of
giving the horse a food too rich in this
element; but when the nervous system
has no chance to spend its energy, the
excess of nerve-food becomes hurtful
rather than beneficial. The horse-foods
which contain the largest percentage of
phosphorus are oats and barley, and
that is why these grains put so much
life into a horse. Next in order comes
Southern corn. Northern corn contains
little phosphorus but a large amount of
carbon, and hence it is a sleepy food,
making a horse fat and lazy.

The knowledge of these facts should be
turned into practical account in feeding.
In the earlier stages of treatment the
neurotic horse should be deprived of a
portion of his oats, substituting a proper
ration of corn. Usually a slight change
in this respect is sufficient to produce
the desired result, and in a short time,
as treatment progresses, his full ration
of oats should be restored. He will need
an abundance of life-giving food if given
the constant work that his case re-
quires, and it must be remembered that
it is upon work that we chiefly depend
for a cure. The dieting simply slows up
the nerve-machine a little and relieves
the strain until the more important
treatment begins to have its effect.

In the instructions I have here given
for the treatment of different vices I
trust that the key will be found for the
treatment of others which lack of space
prevents my referring to. The main
thing in all such cases is to go to work
understandingly, always having a clear
reason in your mind for everything you
do—and then remember that a great
deal of patience, perseverance and re-
solution are necessary to success.

Dr. Shoop's Rheumatic Cure

COSTS NOTHING IF IT FAILS.

Any honest person who suffers from Rheumatism is
welcome to this offer. For years I searched everywhere
to find a specific for Rheumatism. For nearly 20 years
I worked to this end. At last, in Germany, my search
was rewarded. I found a costly chemical that did not
disappoint me as other Rheumatic prescriptions had dis-
appointed physicians everywhere.

I do not mean that Dr. Shoop's Rheumatic Cure can
turn bony joints into flesh again. That is impossible.
But it will drive from the blood the poison that causes
pain and swelling, and that is the end of Rheumatism. I
know this so well that I will furnish for a full month my
Rheumatic Cure on trial. I cannot cure all cases within
a month. It would be unreasonable to expect that. But
most cases will yield within 30 days. This trial treat-
ment will convince you that Dr. Shoop's Rheumatic
Cure is a power against Rheumatism—a potent force
against disease that is irresistible.

My offer is made to convince you of my faith. My
faith is not the outcome of experience—of actual knowl-
edge. I know what it can do. And I know this so
well that I will furnish my remedy on trial. Simply write
me a postal for my book on Rheumatism. I will then
arrange with a druggist in your vicinity so that you can
secure six bottles of Dr. Shoop's Rheumatic Cure to
make the test. You may take it a full month on trial. If
it succeeds the cost to you is \$5.00. If it fails the loss is
mine and mine alone. It will be left entirely to you. I
mean that exactly. I don't expect a penny from you.
Write me and I will send you the book. Try my rem-
edy for a month. If it fails the loss is mine.
Address, DR. SHOOP, Box 9410, Racine, Wis.
Most cases not chronic are often cured by one or two bottles. At
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guarantee them to be more stylish, better
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only shoes but everything used in the home.
Highest bank, commercial and customer's refer-
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244 to 257 Wabash Avenue, Chicago.

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REYNOLDS EXPERIENCE in HORTICULTURE.

NATURE'S SEASON OF REST.

Doubtless many of those engaged in tilling the soil, in this latitude, especially horticulturists, regret the long rest nature takes when, for about six months, from November 1st to May 1st, the growth of vegetation is suspended. We have just passed through a period of extreme winter weather. About November 18th winter closed in upon us, the ground became frozen, light snow fell almost every day and the earth has not since been released from the grip of King Frost. True, once or twice it rained a few hours, during December, but soon changed to freezing temperatures. The average temperature for the month was 24 degrees, more than 4 degrees less than the average for December for thirty-three years. Early in the morning of January 5th the thermometer at the weather observer's office in Rochester registered 14 degrees below zero, the lowest it is claimed noted, since the office was established at this station. This is perilously near the maximum of cold that the fruit buds of peaches will survive, but outside the city, up the Genesee river, in Livingston, Steuben and Yates counties, temperatures of 20, 30 and 40 below zero are reported. It may be possible that the accuracy of those thermometers is questionable. The prospect for peaches, where such temperatures prevailed, is decidedly discouraging. As the rise in temperature was very gradual, probably peaches between Rochester and Lake Ontario may be spared, but the outlook for a crop in Western New York, generally, is decidedly gloomy.

Perhaps many horticulturists, during those arctic temperatures, felt a longing for those climates where vegetable growth continues the year round, where, when one crop is matured and gathered, the ground may be fitted and planted with another, where nature claims no rest and winter does not consume all that summer produces. But, is such a climate altogether desirable? Where one crop of peas, beans, potatoes, cabbage and other species of vegetables, strawberries, raspberries, grapes and the large fruits, has been harvested, you should immediately go to work to manure, plow, cultivate and plant other crops. Would not the vocation become a little monotonous and wearisome after a while? It seems to me that our present way is preferable. After the enforced rest and abstention from cultivation of winter we look forward to the renewing of operations in spring and summer, with pleasurable anticipations. It almost seems like beginning a new experience. It seems like an awakening of nature. The birds that had forsaken us for the winter, return and resume their cheering songs and renew their preparations for housekeeping and bearing and rearing their young and new forms of life appear among our domestic animals to add to the interest of rural pursuits and we watch with pleasurable anticipations the opening of the first leaf and fruit buds and the germination and growth of the seeds which we have planted. True, the numerous species of destructive fungi and insects soon appear to thwart our efforts, but their numbers are greatly reduced by the frosts of the winter through which they have passed.

But to add to the pleasures of the horticulturist, during the bleak, cold season of nature's sleep he should preserve an abundance of the best fruits, grown during the season of activity, for family consumption. It is quite an art to grow fine, sound fruit and it is quite an art to preserve it and ripen it so that it shall be in best condition for eating. I had some very large, fine Angouleme pears on my grounds, last season, I suffered them to hang upon the trees so long as I dared, gathered them in baskets in the cellar until obliged to build a fire in the furnace. I then removed them to a small upper room, not in connection with the furnace, where they could be kept as cold as possible, without danger of freezing, I soon began to assort them, a baskets at a time, taking out all that began to show color, removing them to a pantry off the

kitchen. They soon began to color and soften and we began to eat them freely with our meals. They were mellow, very juicy, almost buttery, sweet and delicious. They all finally assumed a golden color, became mellow and we ate the last Thanksgiving day. Following the pears, we indulged in Snow or Fameuse apples, then Jonathan and are now eating the Canada Red, a very good kind. In a few days we expect to commence on the Northern Spy.—P. C. Reynolds.

The Products of New Mexico.

Editor of Green's Fruit Grower:—An old friend and former neighbor, now living in New Mexico, has written me a very interesting letter describing the various resources, magnificent climate, and productive soil of that country, from which it seems that water is all that is needed to make an earthly paradise of it, but only in favored localities is there enough for irrigation.

When our old friend arrived in New Mexico, in 1884, he was told that it was strictly a mining and stock-raising section, and that it never could be much else; that the area which could be irrigated and brought under cultivation was very limited, and even where water was plenty only inferior fruits, always excepting the delicious Mission grape, could be raised. Apples from seedlings raised without care on Mexican ranches were small, dry and tasteless; peaches, pears and plums were insipid. Very soon afterwards, however, intelligent farmers from "the States," who had taken up land along the water courses, were planting improved varieties of fruit, and the results soon became apparent. Since 1890 large and finely flavored apples, peaches, plums, apricots and pears have come from New Mexico, and now Maine and Michigan have to look to their laurels as the champion apple-raising states of the country, as far as quality is concerned.

Not long since our friend visited Mr. and Mrs. Ellis, living in Lincoln, N. M., an elderly couple, who emigrated to the unsettled region of the country during what is known as the "Lincoln County War," when the name of "Billy the Kid" was a terror throughout the land, and in consequence they made but few improvements for several years. In 1882, however, they planted an orchard of 600 apple trees, and 200 more were set out later, and in a few years gratifying returns were realized. At the time of our friend's visit, which occurred in October, their trees were so full of Winesaps, Hunter's Favorites and other varieties that the long, slender branches lay on the ground. Of one kind of winter apples 1,500 pounds (fruit and vegetables are not sold by the bushel there) were in one pile, and nearly as many of another kind were in another pile. The earlier fruit had been gathered, and sold at from 5 to 8 cents a pound. Late peaches and pears were still hanging on the trees, and cherries, strawberries, dewberries and blackberries had been produced in their season. There was also a thriving vineyard of Concord grapes, but this variety is hardly tolerated by those who have once eaten the Mission grape, which is the most abundant and the cheapest fruit in the market there, and is grown in perfection at Las Cruces and other points south of Socorro. Alfalfa is cultivated on a large part of the 800 acres comprising Mr. Ellis's ranch. Acequias conduct the water for irrigation from the Rio Bonito to the orchards and farms, but the stream is a small one, and so much of the water is taken out for the alfalfa meadows above Lincoln, that the supply at that point often falls short.

In New Mexico Dame Nature does nothing by halves, and when she does "get on a tear" everybody is glad when it is time for her to subside. The wind storms which fill the air with dust which penetrates every crack and crevice are events to be dreaded, though they do no serious damage. Sometimes for three days the wind rises with the sun and goes down with its setting, only to rise again in the night and blow till near morning. Buildings on one side of a street are then entirely hidden by the clouds of dust. Few houses can be so built as to exclude the dust in these storms, but when, after a few days, the clouds disperse and the bright sunshine again appears, the good people of this country are all ready to snap their fingers in the face of anyone who ventures to assert that the climate of New Mexico is anything short of perfection.—G. B. G.


Planting Fruit Seeds.—Fruit seeds when allowed to become dry will not grow readily. If you will plant the seeds of apple, peach, plum or cherry at once on removing them from the fruit, before they have become dried, they will grow the following season. The same rule applies to currant, strawberry and other fruit trees.

American apple exports this season are almost two million barrels; the largest quantity ever known, and there seems to be no cessation in the demand. Short crops in England and all over Europe are responsible for the unusual demand. Exporters say that nothing in their advices indicates any reduction in demand, and they are arranging to handle quite as many apples in the next few weeks as they have during the past month. During the last week of December enormous quantities went across. According to statistics compiled by W. M. French, one of the largest apple exporters in the world, the figures were: From New York, 60,945 barrels; Boston, 67,077 barrels; Montreal, 73,092 barrels; Portland, Me., 10,483 barrels and Halifax, N. S., 19,500 barrels. Of this quantity Liverpool took 113,332 barrels; London, 46,443 barrels; Glasgow, 28,109 barrels; Hamburg, 20,962 barrels; Hull, 5,326 barrels; Paris, 653 barrels; Antwerp, 1,161 barrels; Bremen, 316 barrels; Copenhagen, 250 barrels; Bristol, 6,877 barrels, and Manchester, 7,768 barrels, a total of 231,097 barrels, the largest week's business in the history of the export trade.

What women sigh for is long life without old age.

It is natural for a cannibal to love his fellow man.

The Horn of Plenty awaits every Farmer



**who uses
Nitrate
of Soda**

(THE STANDARD AMMONIATE)

In the Orchard or for Small Fruits, for Grain, Grass, or Vegetables, results are certain. 100 pounds per acre, used as a Top Dressing for a growing crop, with or without the use of other fertilizers, will yield results that will be to the farmer like Finding Money. Send name and complete address on Post Card for my new Bulletin, "Food for Plants."

I have nothing to sell; no catalogues. I am simply publishing information of Experiment Station Results from the use of Nitrate of Soda, and giving it free.

WILLIAM S. MYERS, Director,
12-16 John St., New York.

Please mention Green's Fruit Grower.

Let us start you in a business that will make you wealthy. To those who are honest and willing to work. Address with stamp. SMITH & MOORE, Lock Box 8, Erie, Ill.



Dr. Coffee Restores Sight to the Blind and Hearing to the Deaf at their homes

with his wonderful Absorption Treatment of mild medicines that anyone can use. One of these books and his opinion of your case FREE.

Write for Eye Book today. It explains how to cure yourself of Cataracts, Granulated Lids, Wild Hairs, Glaucoma, Ulcers, Scars, Inflammation, Sore Eyes, Growths, Spots, Failing Vision, and all weakness of eyes. A valuable household book.

Deaf Book explains all about ear diseases and Deafness. Tells how you can cure yourself at home by Dr. Coffee's wonderful, but simple method and restore your hearing perfectly. Anyone can use it. Cures Head Noises, Inflammation, Discharge in Ears and all forms of deafness. These books contain rules of health, tell how to diet, take physical exercise, when and how to bathe, etc. Every person can have a copy of either of these books free by writing and specifying which book.

Thousands of Wonderful Cures—Read About Them:

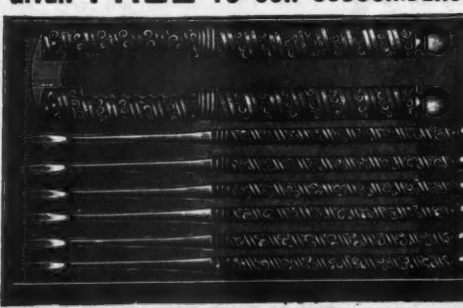
 <p>Mrs. M. A. Roberts, Windsor Station, Va., says, "I was totally blind in one eye with cataracts, and almost so in the other. Doctors said operation was the only hope. I heard of Dr. Coffee and used his treatment one month and got perfect sight. I am seventy-three years old."</p>	 <p>Mr. M. B. Powles, Jackson, Mich., says, "I had a growth on my eye. Went to a doctor and he cut it off. It grew back, was cut off three times and grew back again. I wrote to Dr. Coffee; his treatment absorbed the growth in 4 weeks and sight is now perfect."</p>
 <p>Mrs. Lulu Tait of Emmetsburg, Iowa, was totally blind from inflammation of the eyes, ulcers and granulated lids. Four surgical operations were failures. Doctors said there was no hope. But Dr. Coffee's Absorption Treatment gave perfect sight.</p>	 <p>Mrs. Millie A. Greenman, Garvin, Minn., says, "I was blind from ulcers, inflammation, and growths over my eyes. Inflammation went to one ear and made me deaf. Doctors at home failed to help me, but Dr. Coffee's treatment restored sight and hearing."</p>
 <p>Mrs. Sadie Atherton, Des Moines, Iowa, says, "My niece, Nada Parker, was so blind she had to be led and so deaf we had to yell in her ears. Doctors said the case was hopeless. Dr. Coffee's Absorption Treatment restored sight and hearing." Dr. Coffee's treatment is a God send to children.</p>	 <p>Mrs. T. J. Blackburn, 1707 Des Moines St., Des Moines, Iowa, says, "Ulcers, granulated lids, scums and inflammation of the eyes made me totally blind. 36 doctors treated me and said there was no hope left. Dr. Coffee restored perfect sight with mild medicines."</p>
 <p>H. C. Laub, Dennison, Iowa, was blind in right eye for 31 years with cataract and would not submit to operation, because his mother was made blind by an operation for cataracts. Dr. Coffee's mild treatment restored sight in one month.</p>	 <p>H. G. Green, Salem, Ohio, "I was growing blind from paralysis of the optic nerve. Doctors failed to stop the disease. Dr. Coffee's Absorption Treatment restored perfect sight." Optic nerve paralysis is certain blindness if not treated in time.</p>

Write Doctor Coffee today. He is the originator of the Absorption Treatment for eye and ear diseases and is the greatest living authority. If you tell him about your case when you write for either book, he will give you his written professional opinion and will not charge you anything. Address

DR. W. O. COFFEE, 861 Good Block, Des Moines, Iowa

NICKEL PLATED NUT PICK SET

GIVEN FREE TO OUR SUBSCRIBERS



This is both a useful and an elegant premium. The set consists of a handsome and strong nut crack and six nut picks, all enclosed in a neat box, as shown in the illustration. Both the nut crack and the nut picks are

NICKEL-PLATED The material used in the manufacture of both of these articles is the finest steel. The handles of the nut picks are made in a pretty design, while the points are highly polished. The nut crack is of a design corresponding to the nut picks and is made for good strong service.

This complete set given to all who send us 50c. for our paper one year and 10c. additional if they claim this premium when subscribing. Send 60c. for paper and complete set. Sent prepaid.

Address,
**Green's Fruit Grower,
ROCHESTER, N. Y.**

OUR CLUBBING OFFER WITH THE NEW YORK TRIBUNE FARMER.

NOTICE that 50 cents pays for the Tribune Farmer Weekly and Green's Fruit Grower for one year. This is a proposition that should not be overlooked by our readers. Remember that our offer is to send you the Tribune Farmer Weekly for 1 year and Green's Fruit Grower for 1 year, all for 50 cents.

Lamp-chimneys that break are not MACBETH'S.

If you use a wrong chimney, you lose a good deal of both light and comfort, and waste a dollar or two a year a lamp on chimneys.

Do you want the Index? Write me.

MACBETH, Pittsburgh.

SEEDS \$3.75 worth to Test Free to Everybody.

I want 1,000,000 people to have a Free Trial of my Superior Seeds, knowing that one trial will make permanent customers.

12 pkts Grand Vegetable Seeds Free
The cream of everything valuable. The best varieties possible to grow in any garden. 12 full packets, worth \$1.00, as follows:

Root, Deepset Red Turnip.
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Carrot, Perfected Half Long.
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I grow the finest flowers in America. Their beauty will be the admiration of your neighborhood.

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Alyce and 10 other grand sorts. Worth \$2.00.

Collection of Giant Sweet Peas Free
100 California Giants, Mixed.
100 Eckford's New, Mixed.
100 New Double, Mixed.
Above collection of Magnificent Sweet Peas will make a long row. Well worth 75 cents.

MY PLAN is to give the above seeds (41 packets and catalog) as a Free Trial to all who have a garden, knowing that they will always buy my seed hereafter. To prevent people sending who have no use for the seeds, I ask all to show this notice to their neighbors and enclose 25 cts. as a Guarantee of Good Faith, and I will promptly mail you all the above 41 packages, which are well worth \$5.75, and enclose a 25 cent check which you can return at any time with your order and get 75 cts. worth of seed, your selection from my catalogue, free. **Free the above Free Trial Lots are Absolutely Free.** Any one of the 3 lots above 10 cts. and a 10c check enclosed. Catalogue free. Address: **Wm. J. J. BELL, Deposit, N.Y.** at Wholesale Prices.

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Experience has established it as a fact. Sold by all dealers. You sow—they grow. 1904 Seed Annual postpaid free to all applicants.

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The Maule motto for more than 25 years. My new

SEED BOOK for 1904

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Worth \$1.25
SPECIAL OFFER to introduce our goods. Money back if not pleased.

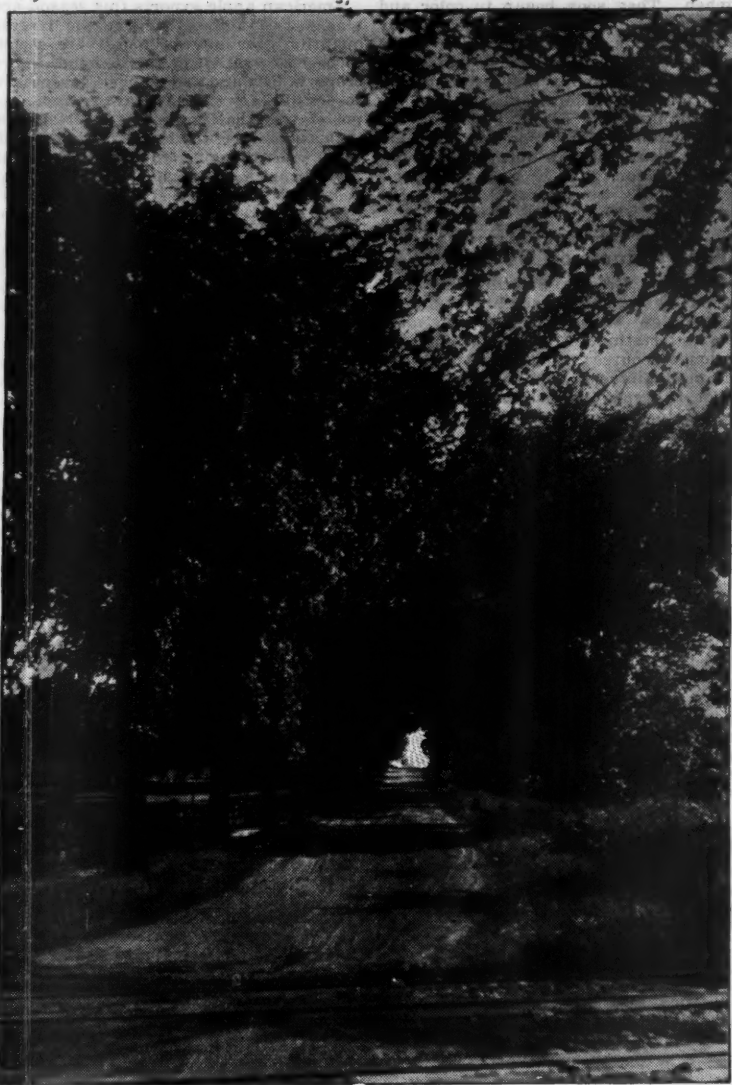
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1 Pkt. Lovely Butterfly Flower. 1 Pkt. Callit. Golden Bells.
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1 New Begonia "splendens." 1 Summer Flowering Hyacinth. 1 Double Pearl Tuberos. 3 Butterfly and 3 Hybrid Gladiolus. 3 Fine Mixed Asters. 3 "Fair Maiden of France." 3 Hardy Wind Flowers. 3 Lovely Clematis Vines. 3 Splendid New Cana Lilies—1 crimson, 1 "Novely." 1 A Retuna Cheek Good for 25c. on first \$1.00 order; also our New Florida Gladiolus, telling all about Roses and 400 other choice flowers. All above postpaid, only 30c.

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NEVER CUT A CORN

It is dangerous. Our plaster will give safe and instant relief. Mailed direct. Five for a dime, fifteen for a quarter. Not sold by dealers. **SIMPLEX CORN CURE**, 1023 Walnut St., Philadelphia



The beauty of trees along the roadside is shown in the above photo-engraving. When a boy our editor spent many days in digging trees from the forest, which he planted along the roadsides bordering the homestead farm. The trunks of those trees are now as large as a man's body and the trees are objects of beauty. There are no finer trees for roadside planting than the American Elm, one of the finest trees in the world.

Dependency.—No man liveth to himself. We are like trees in a forest struck by some great tempest, broken, bent, twisted, interlocked, bearing down or borne up by one another.—Rev. R. Mackenzie, Presbyterian, New York city.

Unbelief.—There is but one thing that can keep us out of the peace with God, and that is unbelief. If we only lived up to privileges of our belief, we would be more at peace in this world.—Rev. C. B. Snow, Baptist, Brooklyn, N. Y.

Dishonesty.—Some men think 'hat the conditions of business are such as to prevent a man living a Christian life. This is a great mistake, and it is a wonder that any dishonest man can succeed in business at all.—Rev. S. M. Dick, Methodist, Worcester, Mass.

Woman.—The spiritual quality in woman's nature causes her to tower above all of God's creations. She is the leader of man along the pathway of life, his guide and inspiration. If she does not help him to better things through good influences, it is in her power to drag him down to the lowest degradation of civilization. The first woman was tempted by the serpent, not because she was weaker than man, but because she was so much stronger.—Rev. J. E. Smith, Methodist, Washington, D. C.

Pride.—Humility is the first step to promotion in the kingdom of grace. "He that humbleth himself shall be exalted." We are God's stewards; therefore, we are to avoid wilful extravagance, undue boasting and pride in word and deed, which excludes God and discounts sacred things.—Rev. George Adams, Methodist, Brooklyn, N. Y.

Fried Chicken.—If not very sure of being a young chicken, cut in small pieces and boil until almost tender. Dip pieces in egg, then in rolled cracker crumbs and fry a delicate brown, turning frequently to have both sides cooked evenly. Sprinkle salt and pepper and keep covered while cooking. Garnish with parsley.

A Cheap Filter.—The poorest family that lives may have a filter by taking a common five-cent flowerpot earthenware, putting in the hole a piece of thoroughly cleaned sponge; over that a couple of inches of sand; over that again about half as much clean, coarse gravel; and

then the water, slowly filtering through, must needs have been very bad at the start not be very pure at the end.—"Harper's Bazar."

Southern Corn Cake.—Pour boiling water over one pint of cornmeal to make a stiff batter. Beat until very smooth, add half a teaspoonful of salt and two well-beaten eggs and fry slowly on a thick griddle till very brown, in cakes the size of muffins. A couple of table-spoonfuls of milk will hasten the browning process.

The worst thing about the way women dress is the way their knees chap in winter.

Either you cuss the furnace because it won't burn or because it will and burns too much coal.

Marten.—I hear you have left your home and family and become a hermit. Skunk—Yes, I had to. My eldest boy took to cigarettes and would smoke 'em in the house.—Boston Transcript.

A Florida Crop.—Bill Brown's caravan of ox teams arrived on schedule time from the store in the Everglades last Friday, bringing in one of the largest lots of hides ever brought to Fort Myers at one time, including 889 alligator hides, some otter and coon skins. At this rate the Seminoles will clean out the 'gators in the Everglades in a few years.

Women seldom use religion as a cloak; it isn't fashionable enough.

If a play has a short run it usually means a long walk for the players. Sometimes it is difficult to distinguish between contentment and laziness.

Some men trust to luck in this world, and some others are lucky to get trusted.

It's useless for some women to deny that they married for money after you see their husbands.

It isn't the shortcomings of a young man that the girl's father objects to; it's his long stayings.

No true novelist allows his hero to patronize an elevator if the building is equipped with a fire-escape.—Chicago News.

To remove pastry suddenly from a hot oven to a cold pantry will inevitably make it heavy. It should be cooled off gradually in a warm room.

So Easy to Forget

In 999 cases out of every thousand, the directions which accompany a physician's prescription or proprietary medicine, tell you to take a dose three or four times a day, either before or after meals, and on going to bed. In 999 cases out of a thousand, this rule is never strictly followed. You start in to observe it religiously, and succeed pretty well at first, but soon you'll begin to skip doses, then the medicine fails in its intended effect. It's so easy to forget.

If the remedy is in liquid form, the business man loses a dose in the middle of the day unless some thoughtful wife, mother or sister gives him a spoon and makes him take an extra bottle to the office. Most men hate to do this. If the medicine is in tablet form, the chances are he will never think of it until he reaches for car fare on his way home. It's so easy to forget. This applies to men and women alike.

The proprietors of Vernal Palmettona (formerly known as Vernal Saw Palmetto Berry Wine) had sense and foresight enough to make their remedy so that only one dose a day is necessary. It is easy to remember to take it after the last meal or on going to bed. It stands in a class by itself. If you are pestered with indigestion, constipation, liver trouble, bowel trouble or any skin affliction resulting from bad blood, Vernal Palmettona is what you need. Try it at our expense. Write for a free sample bottle. It will do you good. Address Vernal Remedy Co., 418 Seneca Building, Buffalo, N. Y. Sold at all druggists.

Rheumatism

Dr. Jebb, the successful Rheumatic Specialist, has cured thousands of Rheumatics after other physicians had failed.

TRIAL FREE

Mrs. Clementine Winslow, of Dayton, Ohio, had rheumatism so badly that she was compelled to walk with crutches. Dr. Jebb cured her. She gained 15 pounds, and does her housework.

Dr. Jebb finds that no two cases of rheumatism are alike, and prescribes especially for each patient. Write us an honest letter, telling the history of your case and the exact symptoms; we will prepare a special treatment and send it to you free of all cost. This trial will prove that Dr. Jebb can cure you. Rheumatism affects the stomach, bowels, kidneys, blood, and heart, and Dr. Jebb prescribes remedies that act directly on these organs, placing each one in a natural, healthy condition, and thoroughly drives every particle of uric acid from the blood and system. This careful, painstaking treatment of each case has enabled Dr. Jebb to cure thousands upon thousands of rheumatics; giving him the title of the foremost rheumatic specialist in all the world. Don't suffer longer; write at once, stating your symptoms plainly. We will prescribe for your individual case, and send you a trial treatment postpaid free. Address: **Dr. Jebb, 15 Kingston Block, Battle Creek, Mich.**

A WIFE'S MESSAGE

Cured Her Husband of Drinking.

Write Her Today and She Will Gladly Tell You How She Did It.

My husband was a hard drinker for over 20 years and had tried in every way to stop but could not do so. I at last cured him by a simple home remedy which any one can give secretly. I want every one who has drunkenness in their homes to know of this and if they are sincere in their desire to cure this disease and will write to me, I will tell them just what the remedy is. My address is Mrs. Margaret Anderson, Box 421, Hillburn, N. Y. I am sincere in this offer. I have sent this valuable information to thousands and will gladly send it to you if you will but write me to-day. As I have nothing whatever to sell, I want no money.

Canning Business information for a two-cent stamp. **C. G. WARFORD, Newburgh, N. Y.**

TRY A WATER DOCTOR

And get Well, Strong and Vigorous. If you will send me a sample of your morning urine I will tell you what disease you have, its cause and if curable or not, free of charge. You can catch it at home at a very small cost. I treat both sexes. Send four cents for mailing case and bottle for urine. Address: **J. F. SHAFER, M.D., Water Doctor, 213 Penn Ave., Pittsburgh, Pa.**

Darken Your Gray Hair

DUBY'S OZARK HERB restores gray, streaked or faded hair to its natural color, beauty and softness. Prevents the hair from falling out, promotes its growth, cures and prevents dandruff, and gives the hair a soft, glossy and healthy appearance. IT WILL NOT STAIN THE SCALP, is not sticky or dirty, contains no sugar of lead, nitrate silver, copperas, or poisons of any kind, but is composed of roots, herbs, barks and flowers. PACKAGE MAKES ONE PINT. It will produce the most luxuriant tresses from dry, coarse and wiry hair, and bring back the color it originally was before it turned gray. Full size package sent by mail, postpaid, for 25 cents. **OZARK HERB CO., Block 31, St. Louis, Mo.** Please mention Green's Fruit Grower.

Look for **Marvin Smith Co's** buggy advertisement in this paper. It's attractive and they are making some very low prices. If you want a vehicle of any kind the advertisement will interest you. We guarantee their responsibility.



A MONTHLY JOURNAL.

CHARLES A. GREEN, Editor and Publisher.
Prof. H. E. VAN DEMAN, Associate Editor.

J. CLINTON PEET, Business Manager.

Price, 50 Cents per Year, Postage Free.
Office, cor. South and Highland Aves.

Rates for advertising space made known on application.

110,000 Copies Monthly.

Entered at Rochester Post Office as second class mail matter.

ROCHESTER, N. Y., FEBRUARY, 1904.



To live honestly we must work honestly.

We are told to make hay while the sun shines yet most of the hay is made by frequent and refreshing showers.

We are told that the mill will never grind with the water that has passed. No, this mill will not but other mills further down the stream will.

Never buy what you do not need. This does not apply to the family journal like Green's Fruit Grower which has done you good service for over twenty years.

The face is not always the mirror of the soul. There are homely faces that mirror kind and sympathetic hearts, there are beautiful faces that mask hearts of flint and feelings like icicles.

Haste does not always make waste. We must hasten to our buildings when they catch fire, and hasten to dinner or feed on cold turkey.

Keep your potatoes and other fruits and vegetables out of the light as far as possible, in your cellar, and keep them as cold as possible.

Huckleberry plants, or blue berries, are not offered in nursery catalogues for the reason that it is difficult to secure young plants in quantity and that they are difficult to transplant.

Crowded Trees.—I believe in planting trees closely together in orchards or in garden rows, but when the trees begin to crowd each other, or to completely shade the ground, I would not hesitate a moment to dig out every other tree.

Orchards should be cultivated from early spring to August first but they should be so managed that every year some green crop can be plowed under to furnish humus and keep the soil loose and fertilized. In August orchards can be sown to rye, or some other crop than can be plowed under the succeeding spring.

Rats are the destructive agents associated with most poultry houses. Never build floors in your poultry houses under which rats can make their nests and breed, but have an earth floor, or floor made of cement.

Farm Accounts.—You probably did not keep very accurate accounts of your farming enterprises last year. Are you going to keep better accounts the coming year? Will your accounts at the end of next year tell how much you have sold from your farm and what profits you have received from various crops? If not how can you tell which crop has given you the best profit? My opinion is that you will find that your fruit has paid you better than any other farm crop.

Place for Farm Tools.—I do not doubt that one-fourth of all the farm tools, including wagons and various kinds of machinery are at this moment outdoors without cover, exposed to rain, snow, sunshine, wind and frost. As I drive through the country I see reapers, mowers, plows, cultivators, horse-rake and other farm tools thus exposed. No farmer can afford to waste his tools in this manner. An expensive building is not necessary for storing tools. A rough shed with a rough board roof will answer the purpose.

A Good Orchard.—A friend planted a large orchard on his farm located near Green's fruit farm. The orchard

was planted thirty years ago; it has had the reputation of being a good productive orchard. My friend died several years ago and the farm has gone into the hands of a stranger who sold this year \$10,000 worth of apples from this orchard, or nearly enough to pay for the entire farm upon which the orchard stands.

Prospects for Fruit Next Season.—In Western New York the temperature has been as low as fourteen degrees below zero and it is feared that peach buds are injured but it is too early to decide positively. So far as we know other fruits are as promising as usual at this date.

The apple barrel will have to go unless it can be bought at lower prices than it sold for this year. Boxes can be made cheaper than barrels. Apple barrels are a large bill of expense to the man who has a large orchard. Bushel boxes are coming into favor, also boxes of smaller sizes.

Soil for Peaches.—In old times it was supposed that peaches would only grow on sandy soil. The same idea prevails in regard to chestnuts, but I can assure my readers that both peaches and chestnuts will succeed well on any good corn or wheat producing soil. The land must be well drained and must not be heavy clay.

Eating Fruit Is a Habit.—Many American people have not yet formed the habit of eating fruit. When they do form this habit there will be less need of doctors and the use of various medicines will be largely reduced. The acids of apples, peaches, currants, strawberries, raspberries and other fruits seem just what the stomach demands. I cannot advise every one to eat an apple just before going to bed but I do it myself. If thus eaten an apple must be chewed well, if swallowed in lumps it will not digest so easily or quickly. Eat plenty of apple sauce.

Rhubarb and Paeonies can be propagated by digging up old plants and dividing the roots. Each root should have a portion of the crown remaining upon it. No farmer should be without rhubarb, the earliest vegetable obtainable from the garden in the spring. The old fashioned paeony has come into favor again as a popular flower which once planted will delight the family and passersby for nearly a life time.

Sun scald does not affect trees in Western New York but much injury is thus done farther south. This may be prevented by slanting the trees to the south when planting them, or by allowing the trees to branch low. Another remedy is to attach a board six inches wide to the south side of the newly planted tree.

Currants and Gooseberries.—These are among the most easily grown of all small fruits and there is no excuse for any one not having a good supply. Currants are considered sour but Red Cross is a sweet currant that can be eaten the same as raspberries or strawberries. Gooseberries like the Industry are often eaten out of hand. No fruit garden should be without them.

Tree Wounds.—Now is the time to prune trees. The work may be continued until they begin to leave out in the spring. Where large branches are cut from trees paint over the stub with ordinary lead and oil paint. This will keep out moisture and prevent decay while the wound is healing.

Gold and Silver.—In early days gold and silver were considered the great implements of wealth. The early explorers who visited this country were after gold and silver. They cared nothing for productive lands. Thus they overlooked greater wealth. We of to-day realize that there are other forms of wealth greater than gold and silver and that the greatest of all forms of wealth is agriculture and agricultural products.

Work for the Blind.—A young man having charge of one of the departments of Green's Fruit Grower was recently threatened with nervous prostration. The doctor prescribed massage treatment. A blind man came daily to rub this patient and knead his body in a way called massage. This blind man seemed to have no difficulty in finding his way to the house of the patient, although it was several miles away and he had to pass through crowded streets of the city. Blind people have a keener sense of touch than others, therefore are more skillful in giving massage treatment.

Individuality Desirable.—The Creator has formed no two leaves alike, nor no

two men alike. Each person is intended to be different from all others. But where men and women are crowded together as they are in cities, the tendency is for them to act and dress alike. And yet even in cities is much individuality. The Bible says, "Let your light shine." This means be yourself, speak your own thoughts, do your own work in your own way, and yet it is assumed that your thoughts will be good thoughts and your ways good ways.

In Love.—We are told now by a philosopher that to be in love shortens life. We knew that hate, envy and desire for revenge shorten life. It is a surprise to us to learn that love shortens life. The good Book tells us to love our neighbor, to love our wives, children and friends, therefore we think it reasonably safe to continue in this course.

Whistle.—We are told that the whistling girl and the crowing hen never come to any good end, but I think this is merely a rhyme and not truth. I advise all men and women to whistle. Whistling is an innocent pastime. More than this, whistling expands the lungs and tends to give one a low, deep breath, the same as playing on the cornet. Whistling tends to enliven the spirits not only of the whistler but all other people within hearing. The husband of a good wife was once sick for several weeks. One day his wife heard him whistling in his distant room upstairs; she bounded to his side with joy feeling that he must be in better health. She told him how much good it did her to hear him whistle. Anything that makes more cheerful improves our digestion, therefore whistling is good for dyspepsia. I am a great whistler. I am continually whistling without being conscious of the fact. I do not select the tunes I whistle, they come to me spontaneously. If I am sad I find myself whistling sad tunes. If I am joyful I find myself whistling joyful tunes. There are people who become so expert in whistling that they can entertain audiences.

A Spinster.—A spinster is one who spins. Not many years ago women spun by hand all the yarn that was made into clothing, thus these women were called spinsters, but now the word is incorrectly used with reference to unmarried women over 25 or 30 years of age.

Earth Worms.—There are few people who appreciate the importance of this humble creature. How utterly insignificant seems to the thoughtless the life of the worm which is spent in a dark chamber of the earth. But were it not for the angleworm the earth would not be able to feed its present large population. These worms are active and industrious, perhaps the most industrious of all creatures. They are constantly burrowing through the soil, swallowing and digesting the soil and many of the roots, etc., which it contains, thus transforming crude and hard soil into fertile and friable soil capable of producing large crops. Their burrows permit the air to enter the soil which is helpful to plants. They sometimes burrow to depths of six feet.

The race horse which will trot a mile in two minutes or less will attract a great crowd, but the farm horse, strong of limb and steady in gait is a more valuable animal for all practical purposes. There are few people who would go out of their way to see a plow boy turn wide furrows, but this plow boy is doing more for the good of the country than the manager of the circus, or many who run for the state legislature or for congress. Let us not overlook the value of common things. Hens are common things. We see them everywhere, but consider the revenue in eggs and flesh of poultry of this country, which is not far short of that of corn, wheat, cotton or many other leading agricultural products.

I Like These Things.—My tastes are varied. I am an admirer of fine paintings, statuary, music and good clean dramas. I love good literature; I admire Shakespeare, Tennyson, Dickens, Thackeray, Victor Hugo, Charles Read, George Elliot. I like to hear a good sermon or a good lecture. I am a lover of nature enjoying beautiful sunrises and sunsets, the coming and the departing of storms, the falling of snow, the raging of floods. I love birds, chickens, sheep, cows, horses and in fact all of our domesticated animals. I see much to admire in a fine specimen of mankind or womankind, also in children. I used to suppose that everyone liked all these things but I have learned that they do not. Not everyone enjoys music. Some care but little for art, or literature, etc. We should cultivate a taste for good things. The more of them we appreciate the more we enjoy life.

How Little We Know.—We know little about ourselves and yet Pope says the proper study of mankind is man. We know far less about lower animals and other numerous insects of which mankind absolutely know nothing. New insects in vast numbers are being discovered every year. I can form no conception of the instincts of many insects which enables them to migrate long distances in the direction of their appropriate food, or their faculty of traveling miles to find their mates where their mates have been hidden by scientific investigators. On a still summer evening we may hear in the bushes by the wayside thousands of insects discoursing to one another and yet if we examine the bush we shall find nothing and the next day may imagine the bushes uninhabited when insects are there by the thousand. The whiskers or bristles that protrude from the nose of the cat are an unknown quantity to most people and yet they are of the greatest importance to the cat since they are very sensitive and direct the cat in her midnight search for game such as mice and birds. Birds are guided by the sensitiveness of their bills; the dog, the deer and many other animals are largely attracted by the keen scent of their noses which is almost incomprehensible to man.

Hard Work.—We sometimes hear complaints from young men that farming is hard work. These young men express a desire to get away from the farm so that they may have an easier time. The fact is there is no easy place for any one in this world if he lives the right kind of life. We should not be looking for an easy place. We should look for a position in life, or a calling where our best energies can be exercised to the utmost. How is high speed secured from a race horse? Can it be secured by giving the horse an easy time? No, the horse must be driven daily and urged to do his best. In this way he improves a little day by day until he travels a mile in less than two minutes. If the race horse is allowed to have an easy time he will not be able to make a mile in five minutes. Many people think that ministers, lawyers, doctors or other professional men, including teachers, have an easy time, but this is a mistake. All of these people must work hard if they accomplish anything. There are thousands who think that merchants, bankers and manufacturers make money easy, have lots of leisure and enjoy life much better than the farmer or fruit grower but this is a mistake. No class of men work harder than the heads of large business houses or corporations in cities. The winter season is particularly a season of comparative rest for the farmer and fruit grower. During winter he has time to visit his friends and neighbors, time to read, think and study. No one should leave the farm for the reason that farming is hard work.

Sick Animals.—It is difficult for a man to doctor horses, cows, sheep, pigs, dogs, cats and other animals since their symptoms when suffering from diseases common to men are entirely different from the symptoms in man. It is difficult or impossible for a horse or a cow to vomit. The symptoms of disease in a horse are often indicated by swelling of the hoofs. Doctoring these animals is something like doctoring babes, it is difficult to doctor a babe because the babe cannot tell where it is suffering; the mother may think it is the colic while the real trouble is a pin sticking into its flesh. The dumb and patient cow or horse when sick, cannot explain to you where the pain lies. Two symptoms however, are similar in all animals. If the pulse is very high, or if the temperature is very high or low you may know that the animal is very sick.

Railroad and express companies have much to do with the action of congress. Express companies are opposed to rural mail carriers delivering packages since this would be in competition with them but it is a great convenience for rural people to have packages delivered by rural mail carriers. Express companies and banks oppose the issuing of paper currency in small sums by the government for sending in letters in place of postage stamps, since this would deprive the express companies and banks of a portion of their business, but an issue of postal currency would be of great convenience to a large number of American people who order publications and various kinds of supplies through the mail.

LEADING COMBINATION OFFER.

WOMAN'S HOME COMPANION,
HOUSEKEEPER MAGAZINE,
VICK'S FAMILY MAGAZINE,
GREEN'S FRUIT GROWER.

All four papers 1 year for \$1.25. Publisher's price, \$3.00.
See other liberal offers on another page.



The work just when evening and put on the which three dust spoonful a quart amount more hard. fine white and put to boil casional all part a tub, emulsion second will use rinsed. The sec in the but the some of in the s but the will be are dry.

Editor Bred able of those and ha medium three thr of a str turning other an needle a ready fo third of are mad put into inches w make a l must be let the r of the br made an end, and three or even str care sho the rug better if men's cl rugs. Th a dark b pretty w color, als and sold a pinked

Charlot with Fr of cream powdered eggs bea lows and fine, six English w ful each candled with a ha almond a liquids a frothed c plied in a and set o

It's a fo man that swered.

Nothing

For over s ing Syrup their childr turbed at n a sick child of Cutting get a botti Syrup" for incalculable suffer in mothers, th cures diarri Bowels, cu Gums, red tone and "Mrs. Winn dren teeth is the pres best female United Sta gists thro five cents a "Mrs. Win 1903.



Easier Wash Days.

Written for Green's Fruit Grower.

The way I shall describe lessens the work at least one-half, the clothes are just as clean and will last longer than when they are rubbed. Sort them the evening before they are to be washed and put the white clothes in clear water to soak. In the morning put the boiler on the stove and fill it half full of water, which takes two or three bucketfuls. Put three heaping tablespoonfuls of gold dust washing powder and two tablespoonfuls of kerosene in a vessel, add a quart of water, and boil it a few minutes until it forms an emulsion. The amount given is for soft water; a little more will be required if the water is hard. Pour this into the boiler, pass the fine white clothes through the wringer and put them in the water. Allow them to boil fifteen minutes, stirring them occasionally to allow the suds to penetrate all parts alike, then lift them out into a tub, put a little more of the kerosene emulsion into the boiler and boil the second lot of white clothes. The first lot will usually need no rubbing but can be rinsed, starched and hung out to dry. The second lot may need a little rubbing in the places that are soiled the most, but the dirt is very easily removed. Save some of the clean suds or prepare some in the same way for the colored clothes, but they should not be boiled. There will be no disagreeable odor when they are dry.—Western Housekeeper.

Editor of Green's Fruit Grower:—Braided Rugs.—The most neat and durable of all home made rugs or mats are those that are braided. The smoothest and handsomest work is made with medium thick woolen cloth cut almost three times as wide as the desired width of a strand, prepared for braiding by turning the raw edges one side over the other and catching them together with needle and thread. The strands when ready for braiding should be about one-third of an inch wide. Serviceable rugs are made from rags not good enough to put into a carpet, cut three or four inches wide and braided. Rags cut wide make a heavy rug. Cotton or thin goods must be wrinkled up, taking care not to let the raw edges come on the right side of the braid. Square rugs are the easiest made and should be stitched across each end, and a fringe of strands left about three or four inches wide cut into fine even stripes. When sewing braided rugs care should be used to sew the braid so the rug will stay flat. The rugs wear better if lined with burlap. Cast off men's clothing furnish good material for rugs. The faded pieces may be colored a dark blue and brown. These rugs are pretty when each strand is of a different color, also when made of a solid center and solid border of a different color with a pinked edge of heavy cloth.—A. M. H.

Charlotte Russe.—A Charlotte russe with French fruit calls for a pint of cream whipped stiff, a half-cupful of powdered sugar and whites of three eggs beaten stiff. Add six marsh-mallows and a dozen seeded raisins, chopped fine, six each of blanched almonds and English walnut meats, and a teaspoonful each of shaved citron, chopped candied cherries, candied orangepeel, with a half-teaspoonful each of bitter almond and vanilla. The fruits and liquids are beaten in lightly with the frothed cream and eggs, the mixture piled in a mould lined with lady-fingers and set on ice for an hour.

It's a fortunate thing for the average man that all his prayers are not answered.

Nothing Better—Because it is Best of All.

For over sixty years Mrs. Winslow's Soothing Syrup has been used by mothers for their children while teething. Are you disturbed at night and broken of your rest by a sick child suffering and crying with pain of Cutting Teeth? If so send at once and get a bottle of "Mrs. Winslow's Soothing Syrup" for children Teething. Its value is incalculable. It will relieve the poor little sufferer immediately. Depend upon it, mothers, there is no mistake about it. It cures diarrhoea, regulates the Stomach and Bowels, cures Wind Colic, softens the Gums, reduces Inflammation, and gives tone and energy to the whole system. "Mrs. Winslow's Soothing Syrup" for children teething is pleasant to the taste, and is the prescription of one of the oldest and best female physicians and nurses in the United States, and is for sale by all druggists throughout the world. Price, twenty-five cents a bottle. Be sure and ask for "Mrs. Winslow's Soothing Syrup." 1840-1900.

Hints to Housekeepers.

A sharp pain in the lungs or side can be driven away by applying vaseline and mustard in the proportion of two parts vaseline and one part mustard. Rub it together and spread on a piece of linen as you would an ordinary paste. This is also excellent for a severe pain in the back of the neck and has been used with good results for breaking up the grip.

A healing poultice for pressure in breathing or for pleurisy pains is made of onions, boiled with pork until half done, then mashed or chopped and applied hot. This was ordered for an incipient case of pneumonia in a child, and was the only remedy tried for some hours. It was made to line a jacket next to the skin, and was renewed before it got cool. The remedial effects of the mixture of heat, grease and onions are remarkable.

An infant should be given no food containing starch until it cuts its teeth. Starchy foods include biscuits, corn flour, tapioca, sago, rice, potato, etc. An infant cannot digest any of these until its teeth are cut. Violent noises and rough shaking or tossing are hurtful to a baby, and should be avoided as much as possible. Infants should never be put into a sitting posture until they are at least three months old, when they will probably sit up of their own accord. They should be carried flat in the nurse's arms, as, if the little back is at all curved, it may lead to curvature of the spine or chest disease. Until children are six or seven years old they should have twelve hours sleep every night. In addition to this, a nap for two hours, either in the morning or afternoon—especially in hot weather—will do a great deal toward keeping them bright and well.

Hygienists all agree in telling us that we do not eat sufficient fruit, which is infinitely more productive of health and beauty than candy and pastry. Ripe apples are especially healthy, and children may eat them without danger. Some doctors say that an apple at bedtime produces sleep. Pears are more tasty than apples, but not so healthy unless cooked. Prunes have medicinal qualities which cannot be denied. They are better cooked, however. Apricots are also more healthy cooked than raw. Peaches are very healthy. The most healthy of all fruit, however, are grapes. Gooseberries and currants are best cooked. Figs are also excellent; they were in great favor with ancient Roman ladies, who always ate them for breakfast. Pineapples are said to be the best cure for dyspepsia yet known. Nuts of all kinds are indigestible. Oranges are also excellent as a cure for dyspepsia. Lemons produce cheerfulness and prolong life.

Now is the time to get cranberries in prime condition, and when canned and put away in the fruit closet with the other goodies they will come in very conveniently at a time when the fresh berries cannot be purchased. Here's a good way of preparing them. Pick over the fruit, wash thoroughly and cover well with cold water in your preserving kettle. Let them come almost to boiling point, then turn your gas low, add sugar and cook slowly for a long time, stirring occasionally, but not too often, as that would break them in pieces. The sugar must be generously used, in about same quantity as of fruit. Do not be afraid of "wasting your sweetness," etc. If carefully cooked they will keep perfect shape, grow transparent and resemble preserved cherries when done.

Fashion in Food.—Foods have their fashion as well as clothes. For no clear reason we eat certain kinds of fish, flesh and vegetables and disdain others which might be edible and pleasing to the taste. Queen Elizabeth ate the flesh of whales, but we to-day would turn up our noses at such a dish. Yet why? Is the cetacean flesh disgusting or tough or tasteless? We do not know for we never had it on our tables. Fish soup, grampuses and porpoises were dainties to the English palate before French cooks invaded the tight little isle and imposed the gastronomical modes of Paris on the British cuisine. It is not very many years since English and American stomachs revolted at the delicate legs of frogs; yet we munch those tender tidbits now with the steadiest nerves and the nicest relish of their sweetness and flavor.—Cooking Club.

Here is a prize recipe for stewed prunes given in a competition begun by a California fruit-growing association. Wash the prunes in several waters, nearly cover with water, and allow to stand over night. Simmer over a slow fire until tender. Do not put in any sugar until just before the prunes are done.

FREE Unitarian literature. Apply to Stella Boardman 138 Plymouth Ave., Rochester, New York.

On the Art of Keeping Young.

There's no trouble at all about keeping young if you know what to do. Sarah Bernhardt says she has kept her youth by the aid of hot water and soap. "When I am tired I take a hot bath," she says. "When I am nervous I take a hot bath and massage. When I am depressed nothing exhilarates and puts me in form so soon as a hot bath.

"Every night when I am playing, as well as when I am at leisure, I take a hot scrub before going to bed. Yes, I scrub my face with soap and hot water twice, and sometimes three times in the twenty-four hours.

"There is no beautifier like soap and water, and no preservative against illness, nerves and age that compares with hot water."

Clara Barton keeps young by not putting.

"I don't putter," she says, "that's what ages women—puttering."

"When I am not working I either rest or play. When I see a woman breaking down with nervous prostration, I wonder when women will learn to stop puttering. "Sleep is a great thing for women. Half the women don't sleep enough. I've cultivated the accomplishment of napping. I shut my eyes and go to sleep whenever there's a lull in my work.

"It isn't the work that wears women out—it's the fretting and puttering. Here's the way to keep young: 'Stop worrying and go to work.'"

"Indulging in a fit of ugly temper not only shortens a woman's life, but makes her old and ugly before her time," says Mrs. Annie Jenness Miller, the apostle of dress reform. "Control your temper, for every time you allow it to control you spoil your good looks and injure yourself physically.

"Not only that, but the woman who governs her temper is the woman who wins in this life; and, as a rule, she makes the best match, because men like sweet-tempered wives. Then, anger curdles the blood, hinders circulation and consequently makes the complexion bad and dulls the eye.

One woman who is beautiful, though sixty, gives her recipe for retaining youth as: "Have great patience with fools." Worrying or being annoyed by the foolishness of others only makes unnecessary lines on brow and cheeks.

Here are a few rules for the guidance of the woman who would be beautiful at sixty or eighty, with a fresh complexion—not one of parchment—and bright eyes and mental faculties active:

Sleep eight hours during the twenty-four. Don't drink hard water. That long-lived race of people, the Chinese, drink only rain water, if they can possibly obtain it.

Avoid food that contains lime. Every article of food contains lime, but of course, there are some that are freer from lime than others. Onions are admirable youth preservers; so are fish, rice and eggs.

Eat fruit of all varieties. Fruit contains a large amount of acid, and this neutralizes the effect of those elements which make old age creep fast upon us. Not long ago a German discovered that all you had to do to live forever and be beautiful forever was to eat a sufficiency of lemons. There was only one objection to the plan, but that was fatal. You had to eat daily one lemon for each seven years of your age.

When, therefore, you arrive at the second or third century, your length of life would be of very little use to you, for it would take all your time to eat the prescribed quantity of lemons.—New York "Sun."

Salt is a very useful, though humble, friend of the housekeeper, if she would but realize the fact. Damp salt will rub off discolorations left in cups by the sediment of tea and coffee. Salt will set the dyes of black and colored articles, if a little be added to the water in which these are washed. Salt, mixed with lemon juice, removes the stains of oak, tar or paint from the hands. Salt and water, applied to basket and straw work, and rubbed in with a soft nail brush, is a most effective cleansing agent. Brass ornaments may be kept bright by rubbing them occasionally with salt and vinegar. Salt thrown upon the grate will soon put out a fire in the chimney. Salt, when added in proportion to whitewash, induces the latter to adhere more firmly to any surface to which it may be applied.

Brine for Keeping Pork Meats.—For one hundred pounds of meat, take about eight pounds of salt, two pounds of sugar, one pint of New Orleans molasses and two ounces of saltpetre. Pulverize the saltpetre, dissolve it in water, and with the sugar and molasses stir it into the brine. It requires three gallons of water with the eight pounds of salt to make the brine strong enough. Old barrels must be well scalded and scraped before using again.

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John Lewis Childs, Floral Park, N. Y.

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on cotton DOUBLE THE STRENGTH of old kind is made with new "PERFECTION" Dyes. Our seventy popular colors are unexcelled for brilliancy and fastness to light, air, soap and acids. Simple, sure, no dull, dingy or uneven effects. PERFECTION Dyes are specially made for coloring rug and carpet rags, and we send six large packages, any colors, by mail for 40 cts. or 35 cts. or 1 for 10 cts.
Send your address on postal and receive our booklet "How to Dye" also new shade cards, catalogue and information how to get four genuine samples from.
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Taploca Pudding.—One-half teaspoonful of tapioca; soak two or three hours, or better, over night, in cold water to cover. Take one quart of sweet milk; let come to a boil, then add the yolks of two eggs, well beaten; one cup of sugar and two slightly rounding tablespoonfuls of corn-starch and the tapioca. Let boil five minutes, stirring to prevent scorching. Remove from fire and add a teaspoonful of lemon or banana flavoring. Beat the whites of the eggs to a froth, add three heaping teaspoonfuls of sugar and, having removed the pudding to a dish, spread over it the meringue and set in the oven a moment until slightly brown.

"Smothered Chicken."—Two tender chickens cleaned and washed and wiped dry. Split down the back as for broiling. Lay flat in a baking pan. Sprinkle flour and put pieces of butter over each; pour in a cup of hot water, set in the oven and invert another pan over it. Roast at a steady heat for about half an hour. Lift the cover and baste often with gravy in pan. Use plenty of butter and remove cover and let chicken brown well before taking out of pan. Thicken gravy, season with pepper, salt and parsley.

Cream Nut Fudge.—Bring slowly to boiling point two cupfuls of granulated sugar and two-thirds of a cupful of milk. Boil hard until a soft ball can be formed by dropping a little cold water, then add one tablespoonful of butter. Remove from the fire and add vanilla to suit the taste and one cupful of chopped nut-meats, stirring until smooth; then pour into a buttered pan to the depth of half an inch and block into squares.

Chocolate Caramels.—Cream well together one cupful each of sugar, molasses and milk (or cream) with half a cupful of butter and quarter of a pound of grated, unsweetened chocolate; then boil until the candy will crack in ice-water. Pour into buttered pans until half an inch deep and when cool mark into squares with a greased knife.

Steamed Indian Bread.—Take three cupfuls of buttermilk, two of sweet milk, three cupfuls of cornmeal, two of flour, a teaspoonful of salt and a half a teaspoonful of soda mixed with the flour. Mix and beat thoroughly, put into a well-greased pan and steam three hours.

Boil cauliflower with the head down and quite immersed in water. Cooked so, it will go on to the table much whiter than if exposed to the air while boiling.

EDITORIAL

Improvements on Farms.—A recent traveler reports that in New York, Pennsylvania and New Jersey he saw but few improvements on farm buildings or farm lands except where country places had been improved by wealthy residents of cities. I am surprised at this statement since in western New York I see continually many improvements made on farm buildings and in the farm lands. Farmers in New York state have had a prosperous season and are in a better financial condition than ordinary in spite of the fact of the severe drought from early spring up to nearly the first of July. I am inclined to think that this traveler was over-critical.

Flight of Bird.—A young pigeon flew back to its nesting place, a distance of one thousand miles, in four days. The bird did not fly during the night. Old pigeons make six hundred miles per day while younger birds are not expected to make over three hundred miles per day. No one can understand how birds locate places so far away. Migration of birds is but little understood.

Cement Walls.—Cement or grout walls are supposed by some to be cheaper than ordinary walls made of stone and lime mortar but at the present time, owing to the high price of cement, walls made of that material cost much more than ordinary stone walls made of lime and sand mortar. It is not necessary to have walled buildings for fruit houses. They can be made with less cost of lumber and may be built entirely above the ground.

Snails.—In France the snail is called the poor man's oyster. It is highly prized as food. Fifty tons of snails are said to be eaten daily in Paris. The snails are deprived of food for a long time before being eaten in order to improve their quality. A creature similar to the snail, but having no shell has become a troublesome pest at Rochester, N. Y. It was introduced from Europe by a German resident.

Farm Economy.—Every land owner feels the necessity of using economy, but often it is good economy to pay out money freely. I do not consider it good economy to attempt to get along without hired help when hired help is actually needed, nor to get along without machinery when machinery is needed. You must look at all these things in the proper light. It is not economy for your wife to work herself into her grave when she should have a maid servant to help her.

Shall I Buy More Land?—Many people have a desire to enlarge their farms. This is often a mistake. I believe in having a little farm well tilled. I can take ten acres of good land and get more revenue from it by growing fruits than many farmers will receive from two hundred acres. If your land is impoverished you have to cultivate two or three acres in order to get the crop that should grow upon one acre. This is poor business.

Girl Farmers.—While we sometimes meet strong young men who complain about the hard work of a farmer's life it is not unusual to see farms managed by young women who do nearly all the work without complaint. There are several girls in this locality working farms.

Thinning Fruits.—There is much to be said on both sides of this question. If a man has a few trees in his garden it is an easy matter for him to thin the plums, peaches, pears and apples, thus securing larger and finer specimens. But what shall a man do who has one hundred acres, or one thousand acres devoted to one fruit? All he can do is to aim by pruning to remove any chance of over-loading the trees, and by thorough cultivation and enriching the soil bring the crop as near perfection as possible. If the large orchardist expends thousands of dollars in thinning out his peaches he may find later that those left upon the trees fall off, or something happens them, thus all of his time may be wasted.

Buying Manure.—I have for years bought manure from the stock yards of Buffalo, by the car load. After paying freight I find that this manure delivered on my farm costs over \$1.00 per load, therefore if you can buy manure near your farm at \$1.00 or less per load I would advise you to buy it, providing you get anything like the prices we get in Western New York for fruits and other farm crops. The trou-

ble with most people is that they cannot get enough manure near their farms. Buy unleached wood ashes also near home.

Apples for Horses.—I make pets of my horses and cow and am pleased to visit the stables often with my pockets filled with apples. I am always a welcome visitor to the barns. My horses and cow consider me their best friend. After eating dry hay and grain how well these animals relish juicy apples. If apples are scarce I carry them a basket of carrots. Every year I grow a patch of carrots for my horses and cow. It is surprising to learn how many bushels of carrots can be grown on a small garden patch. A thousand bushels of carrots per acre is not a large yield. Carrot seed come up slowly therefore when sowing mix a few turnips or radish seeds with the carrot seeds which will come up soon and mark the rows so that you can cultivate the carrots before the seed is up.

Clipping Horses.—I keep three horses in the city for driving and running about. One of them has a furry coat so thick that when driven he becomes sweaty and will not dry off for twelve hours. We were absolutely compelled to have this horse clipped before winter set in. Now this horse after thorough exercising, comes into the barn perfectly dry and in good condition. But when this clipped horse is taken out of the stable on a cold morning he shivers, and I am sorry for him, but the moment he begins to exercise he is all right. Such clipped horses should not be allowed to stand a moment on the street without blanketing.

Laborers on the farms of India receive on an average but \$1.68 a month for their work, and it is hard work and long hours. There are few strikes in India. Possibly if these same laborers were receiving \$30 to \$40 per month they would strike for higher wages.

The Tool Chest.—Every farmer or fruit grower should have a few carpenter's tools, sharp and in good condition, such as hammer, saw, hatchet, screwdriver, augers. There should also be an assortment of nails, screws and bolts of various sizes. Now is the time to renew your supply, so that when the busy season comes, and your machine gets out of order, you have the means at hand for speedy repair. Have on hand always a moderate supply of lumber of varied thicknesses and widths for repairs that may be needed.

In Old Times.—Once kings did all the work of government. Thus we hear of King Solomon acting as judge and jury. Kings went to war and led their armies on to victory or defeat. Later certain nobles thought they should have something to do with the government and finally their claims were granted. Still later certain landed gentlemen deemed it only right that they should have a voice in government, since they had large interests that were affected, and this claim was granted. Later on all men claimed the right to have some voice in government and this was granted. During all this time women were entirely overlooked. Now the women think they should have a voice in government, a vote, since they have as large interests at stake as men, and this seems to be a reasonable conclusion.

Our Wood Lots.—Remember that trees get ripe the same as wheat or other crops. Whenever trees are ready to cut they should be made into fire wood or lumber. But this does not mean the destruction of the forest. If the trees which have attained full growth and are fully matured are cut down, younger trees may remain. Then numerous young trees will spring up on every side and the wood lot will be renewed for cutting in the years to come. I believe in retaining at least a small wood lot on every farm.

Different Views.—The editor aims to give different views of various people on the same subject. The editor is aware that the views of one person may not be accepted by all readers. But if views of different people are given, the reader may select for himself the suggestions which seem to him to be most acceptable. That paper is most valuable to its readers which is most suggestive, leaving the reader himself to decide what to do under his peculiar circumstances, soil and climate.

Horse Shoeing.—Does your blacksmith understand the principles of horse shoeing and how to properly protect the horses feet? Does he rasp off the outer shell of the hoof after having made the shoe smaller than the hoof was naturally? The outer shell of the hoof is the

toughest, strongest portion, and when this is cut off or rasped away, the hoof is weakened. A good horse shoer must be a skillful man and must understand his business well. The owner of a valuable horse usually goes to the shop personally when the horse is shod to see that the proper work is done. For instance, a man who owns a race horse worth \$50,000 would not feel like trusting that horse in the hands of any blacksmith without supervision.

Asparagus.—Asparagus is easily grown and once planted, will last in the same bed or in the same row for almost a life time. On the old farm where I was born there was a small bed of asparagus which had been planted twenty years previously. It had been overgrown with grass and received no attention, yet every spring strong shoots were cut and prepared for the table. In recent years asparagus has been planted in rows so they could be cultivated instead of in beds and the row system is the best. When planted in beds where the grass has covered the ground, I am told that a heavy application of salt may be applied with safety, that will destroy the grass but will not injure the asparagus. Light dressings of salt are helpful to asparagus beds.

Eldorado Blackberry.—I saw an elegant bearing plantation of Eldorado blackberry the past season growing alongside Rathbun, reports Matthew Crawford of Ohio. Both varieties were at their best and had received good cultivation and good treatment. It was difficult to decide which of the two varieties was the more desirable. The owner of the plantation rather favored Eldorado which is perfectly hardy and is a strong upright grower. Both varieties yielded large fruit and plenty of it.

"All our dignity lies in our thoughts."

"It costs more to satisfy a vice than to feed a family."

SORRY HE LEFT THE FARM.

An aged gentleman who has met with varied experiences, said to me, "I am sorry I left the farm." This man worked his way through college under disadvantages, studied law and practiced law for many years in one of the largest cities. He was venturesome, willing to take large risks. At the solicitation of a man who stood high in political circles in Washington, D. C., he was persuaded to go to San Domingo to start a bank. He took with him immense safes for storing the money. At that time San Domingo was expected to be annexed to the United States. This venturesome man was not a man of large means. He sold his beautiful home and invested everything in this new bank. Within a year he was notified by his friend that all was up. San Domingo would not be admitted to the Union and the banking enterprise he had begun must be abandoned. Thus he lost heavily on the venture owing to circumstances which he could not control. Several years later he took a contract to build a railroad in Columbia, South America. He surveyed the route, ordered cars and laid a portion of the track, when a revolutionary war occurred which made it impossible for him to proceed further, and he was compelled to abandon this scheme with loss. Fate was against this man's success thus. Now nearly eighty years old, he remarks: "I wish I had stayed on the farm where there was no opportunity for making millions of dollars, but there was every prospect of laying up a comfortable competency." Will farmer's boys take a lesson from this experience?

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ing and drilling. A moment's work converts it into wheel hoe, cultivator or plow. As such it does the nicest and most accurate work of great variety. We illustrate No. 4 merely as a suggestion of the adaptability and comprehensiveness of all Planet Jr. tools. It is but one of forty of the Planet Jr. family, from which it is easy to credit the claim that in one form or another there is a special Planet Jr. tool for every special duty. The conversion from one to any other form of the combined tools, the exact work and the easy running of all are well known Planet Jr. characteristics. The line embraces plain and combined seeders, wheel hoes, hand cultivators, walking cultivators, one and two horse riding cultivators, special sugar beet cultivators etc. The Company's catalog gives a complete idea of the adaptability and special service of Planet Jr. tools. The 1904 edition will come free to any one writing S. L. Allen & Co., Box 1107-C, Philadelphia for it. Among its 100 illustrations are 16 beautiful half tones of Planet Jr. doing duty in characteristic farm and garden scenes in this and other lands.

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A WISE OLD MUSKRAT.

When a boy, and still barbarian enough to delight in trapping, partly from a love of the chase that was born in me and partly to put money into a boy's empty pocket, I once caught a muskrat in a steel trap that slid off into deep water at the first pull, and so drowned the creature mercifully. This was due to the careful instructions of Natty Dingle, at whose feet I sat to learn woodcraft, and who used the method to save all his pelts. For often an animal, when caught in a trap, will snap the bone by a twist of his body, and then cut the leg off with his teeth, and so escape, leaving his foot in the trap's jaws. This is common enough among fur-bearing animals to excite no comment; and it is sad now to remember that sometimes I would find animals drowned in my traps that had previously suffered at the hands of other trappers.

I remember especially one big muskrat that I was going to shoot near one of my traps when I stopped short at noticing some queer thing about him. The trap was set in shallow water where a path was made by muskrats came up out of the river into the grass. Just over the trap was a turnip on a pointed stick to draw the creature's attention and give him something to anticipate until he should put his foot on the deadly pan beneath. But the old muskrat avoided the path as if he had suffered in such places before. Instead, he came out at another spot behind the trap and I saw with horrible regret that he had cut off both his fore legs. Probably at different times, when he had been twice caught in man's abominable inventions. When he came up out of the stream he rose on his hind legs and waddled through the grass like a bear or a monkey, for he had no forefeet to rest upon. He climbed a tussock beside the bait with immense caution, pulled in the turnip with his poor stumps of fore arms, ate it where he was, and slipped back into the stream again; while the boy watched with a new wonder in the twilight, and forgot all about the gun he had brought with him to shoot muskrats as he tended his traps.

It does not belong with my story, but that night the traps came in, and never went out again; and I can never pass a trap now anywhere without poking a stick into it to save some poor innocent leg.—William J. Long, in "Outlook."

Sick Animals.—"Most people have seen a sick cat eat grass, or an uneasy dog seek out some weed and devour it greedily to make his complaining stomach feel better," says William J. Long in the "Outlook," writing upon animal surgery. "Others may have dipped deep into Indian history and folklore, and learned that many of the herbs used by the American tribes, and especially the cures for rheumatism, dysentery, fever and snake bites were learned direct from the animals, by noting the rheumatic old bear grub for fern roots or bathe in the hot mud of a sulphur spring, and by watching with eager eyes what plants the wild creatures use when bitten by rattlers or wasted by fever. And all have perhaps wondered how much the animals knew, and especially how they came to know it. To illustrate the matter simply and in our own day and generation: A deer that has been chased all day long by dogs, and that has escaped at last by swimming an icy river and fallen exhausted on the further shore, will lie down to sleep in the snow. That would mean swift death to any human being. Half the night the deer will move about at short intervals, instead of sleeping heavily, and in the morning he is as good as ever and ready for another run. The same deer shut up in a warm barn to sleep over night, as has been more than once tested with park animals, will be found dead in the morning."

Queer Fish.—There is a quaint little fish that haunts the weed tracts of the gulf stream, and there builds its nest and lays its eggs like a bird rather than a fish. This animal—the antennarius—imitates in color the weed it lives in, and like the chameleon, constantly changes its colors.

The Ostrich.—A full-grown ostrich will yield an annual income in feathers of about the value of thirty dollars. The market price of a full-grown ostrich at

the present time is about a hundred and fifty dollars, young ostrich chicks being sold for twenty-five dollars; fresh ostrich eggs are worth six dollars each and contain the equal of thirty hen's eggs, tasting just the same. Thus, as a feather producer, an exhibition and a multiplier is the African ostrich subserving the needs of the American ostrich farmer, and, while not furnishing the sport which the marauding Arab on the distant shadeless desert enjoyed, yet in other ways is compensating the citizens of this great republic for the care and comfort it is receiving.

Sea anemones, which with their green, pink, cream, blue and crimson floral beauty turn the shores of the ocean into a marine paradise, may be cut down by adverse circumstances, as our garden flowers are by a northern blast, without losing their vitality or their power of recuperation. Let but a layer of the original root remain attached to the rock, and they will again grow bodies, and crown them with bud-like fringes, which serve them for lips and hands.

An earthworm thinks nothing of being taken off in the middle of the back by the spade of an unsuspecting or malicious gardener, but simply rests as a private patient for a month or two, and then comes out with a brand new tail. Even the loss of the other end does not trouble the interesting creature, which Darwin raised from the status of a pest to the honorable rank of one of the world's benefactors.

Most people lose their heads metaphorically, at times, but when those ornamental appendages are literally off, no fresh heads take their place. A worm, on the contrary, has been known to grow a new brain, as well as the more humdrum but useful mouth and throat, in the course of a couple of months.

The Jew Fish.—Perhaps no angling sport in all America, tarpon fishing in Florida not excepted, is superior in excitement and interest to the fishing with rod and reel for the gigantic jewfish off the coast of the island of Santa Catalina. Sometimes the creatures will haul the rowboat twenty miles before being brought to gaff; and invariably there is a struggle of several hours, developing the staying qualities of both the catcher and the caught before one of these monsters is subdued and led captive to the shore. Hung up there for the edification of visitors to the watering place of Avalon, it is finally thrown into the deep. Let me quote the experience of a well-known pedagogue who wrestled with one of these California immensities: "Imagine, you casters of the black bass fly, a small-mouthed black bass lengthened out to six feet, bulky in proportion, a giant black bass—one that you would dream about for a good day's fishing—almost a fac simile of the five pounder you have taken pride in, but increased to size that tips the scales at 347 pounds! Imagine this and you have the jewfish, black sea-bass or Stereolepis gigas of the Pacific coast."

Food in India.—During the last year of our stay in India we had beef only once, mutton twice and fish about eight times. Chickens are so common we got tired of them. In fact chicken is about the only kind of meat to be had. The natives are vegetarians and seldom eat meat of any kind. A butcher came to our city once a week and brought goat meat, the only kind to be had. The natives eat either rice or bread made from wheat or a grain peculiar to the country. In the grain districts they have bread. It is a two meal a day country. The rich people live well and have dainties, but the poor live on rice and vegetables. Neither knives nor forks are used. Native servants can be engaged for \$3 a month and provide their own homes and food.

"A Queen Bee," said Deacon Blimber, "lays from 2,000 to 3,000 eggs in less than a week, and don't say a word about it; but when that old speckled hen o'mine drops her one little stub-ended yaller egg in the mornin', she struts around and hollers like a house afire, and snubs the whole face of all creation, as if she owned the arth—and that bee and that old hen is a good deal like some human folks."

There was a young lady from Dorset
Lit a match and decided to toss it
In a can of benzine;
And out on the green
They found a side comb and a corset.
—Cornell Widow.

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Every fruit grower should own a good one. We are in position to supply every subscriber to Green's Fruit Grower with the useful article. Will send one to you post-paid on receipt of 50c. to pay for the paper one year and 25c. additional. Send 75c. for paper and pruning knife.

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There Will Come a Day.

For Green's Fruit Grower by Walter Scott Haskell.

Now sunlight her glory,
And darkness her twin;
Are one with Dame Nature,
Since time did begin.

In the absence of day,
The night e'er must be—
A twofold condition
Of God's entity.

For the Artist must have
Both light, and dark shade,
Or his master Creation
Would ne'er have been made.

Poor epitome man!
His soul strives to bloom,
With mind ever doubting
From morning till doom.

He chooseth the darkness,
With light all around;
Knowing not that in one,
The other is found.

Notes From Green's Fruit Farm Dec. 28, 1903.

A neighbor dropped in to use the 'phone the other day and told of his experience with 8,000 barrels of No. 1 apples a few years ago. He bought at \$1.50 per barrel, put them in a cellar. In the early part of winter severe weather set in and all the doors and windows were set wide open allowing the frost to get in to his heart's desire. The whole 8,000 barrels were frozen stiff. Now the doors and windows were closed tight, the cellar banked well on the outside, the floors above the cellar covered thickly and in addition great care taken in covering every barrel with a liberal covering of dry litter. During the early part of February a party interested came and looked at them, pronounced them O. K. and bought them at \$2.25 per barrel, but before the month was over sold them again to the original owner at \$2.50 per barrel. March and April passed away with the usual changes of temperature, but these changes had no effect on the home made cold storage. May 1st the banking was removed, the floors cleared, the doors and windows partly opened, that is gradually the warm air was allowed to get into the cellar. After some days the whole of the covering was removed from off and around the barrels and the fruit was found thawed out and in excellent condition. Every barrel was examined and a shrinkage of only 6 barrels found. The 7,994 remaining barrels were sold within a few days at \$3.00 per barrel.

Farmers in this vicinity discovered gold mines on their orchards the past season. Orchards that promised 200 barrels at the beginning of the season yielded 300 to 400 barrels of excellent quality, which sold readily at from \$1.75 to \$2.25 per barrel. One neighbor bought a farm a year ago for \$10,000. In the spring and during the summer he devoted considerable attention to the larger apple orchard, sprayed thoroughly three or four times, and is now feeling comfortable over the fact of a sale of 5,000 to 6,000 barrels of prime fruit, the net returns of which go a long way to cover the purchase price of the whole farm, which comprises nearly 200 acres of excellent land and a fine old homestead, not forgetting the orchard referred to which is just in its prime.

The specimen rows of apple trees here in the fall were pleasant to look upon and the fruit has been a delight then and since. About one hundred varieties bore fruit. From the time the bright little Red June let us know that the 1903 apple season had opened until the tree of Salome was picked the latter part of November, there was always a pleasant surprise to be met with seemingly every time one looked upon them.—E. H. Burson.

A New Era for Farmers.

Wise men have claimed that the productivity of the earth has reached its greatest point and that henceforth, owing to the scarcity and waste of barnyard manures, and exhaustion of guano beds, there will be a falling off in the yield of farm crops, until not far hence, owing to the increasing numbers of the human family, starvation will ensue. Men in past ages have indulged in similar doleful theories, which have come to naught. Before coal and oil were discovered pessimists feared that the human race would freeze. Now, in addition to coal and oil we have electricity as a method of heating. There are many who look forward to the exhaustion of coal, but who knows what inventions now not thought of may take the place of coal and wood in future years?

The air is full of nitrogen, which is one of the most expensive fertilizers that we apply to the soil. It is claimed that seven tons of nitrogen are pressed on every square yard of earth, but this is in a free state and plants must have the nitrogen in a fixed state in the soil before it can be made available. Legu-

minous plants, such as clover, etc., are known to add nitrogen to the soil through the work of bacteria that accumulate about the roots of these useful plants. A strong current of electricity between terminals burns the air and thus produces nitric acid upon which the plants can feed. But now comes a new discovery, which, it is thought, will make a new era for fruit growers and farmers. This is the discovery that bacteria similar to those that gather about the roots of clover, may be cultivated and bred in an astonishing manner, and can be transported to various parts of the country, and multiplied on the land of the farmer who receives them. When these bacteria in the earth are spread upon the field they continue to increase in numbers in an astonishing manner, thus impregnating the entire field or farm with nitrogen producing creatures. The United States government is now engaged in breeding this form of bacteria, and in sending them out throughout the country, but the work is yet in its infancy. Truly we can exclaim, how little we know of the common things, even of the soil upon which we tread. There are secrets of the soil which men have been groping after for generations, which are just coming to light and which will prove of great service to mankind.

A World of Changes.

Think of human life in the time of the cave dweller. What did the wife do? What was the husband's or the children's work? The wife cooked the food and made the garments. The husband hunted the woods for game; the children were idle. Then came, later on, an advancement when men lived in wigwams or rude cabins, when the wife wove cloth rudely and made woolen garments, or garments of hair, and when the husband began to till the soil. In the earlier ages everything was done in the family. There was not the community of interest, no factories, no congregation of people. Later man discovered that by joining other men he could wage war or defense more successfully than he could alone, thus men began to organize in one direction and another until we have to-day organized societies for various purposes, and organization of capital. Women attempted no organization until more recent years. In the earlier ages women were not considered of as great importance as they are to-day. Now women are organizing. Some complain that women are not so thorough, have not much grit and perseverance, not so much ability as writers, orators or as thinkers, but why should we expect that they should be qualified since they have not had the experience that men have had. It is comparatively a new thing for women to attempt many things that they are now attempting and doing fairly well.

Teacher in Trouble.

A lady teacher was attacked by six grown girl students who assaulted the teacher, overpowered her, bound her hands together with ropes and lashed her to a rail and carried her about. After releasing her from the rail, with her hands still tied behind her, the girls then lashed her to a hog trough with heavy ropes three-eighths of an inch thick, and carried her one-fourth of a mile, where she was placed in the edge of an icy pond until the water came up to her waist. She was left in that condition until her cries caused them to loosen her from her plight. The students then pond and lowered the plaintiff, still lashed to the trough, into deeper water until the water reached her shoulders, and the plaintiff only kept her head out of the water by placing her head back on the ice. She was left in this position for fifty minutes, while the defendants built a bonfire on the shore of the pond to keep themselves warm. She was left in the water until almost unconscious and frozen. Some things like this occur in this country, causing us to blush for being Americans.

Reliable Poultry Journal of Quincy, Ill., is full of valuable information for the poultry keeper. It is devoted to better poultry and more of it. It does not bother with pigeons, rabbits, dogs or other pet stock. It is a large publication with an efficient staff of editors. We offer Green's Fruit Grower with Reliable Poultry Journal both for 50 cents.

A remarkable old man by the name of Joseph Denney lives at Cherokee, Ia. He is the father of twelve children, and has sixty-six grandchildren, ninety-four great-grandchildren, and one great-great-grandchild. At his last birthday 170 descendants congratulated him.

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BISQUE DOLL CO., Dept. F. 32 Bridgeport, Conn.

Aunt Hannah's Replies.

Dear Aunt Hannah: I am a farmer's daughter. I am particularly interested in a young man with whom I have been corresponding for a year. This young man is now living in another city. I have not received any letter from him for several weeks. This long silence on his part is unusual and I fear that he is ill. Would it be proper for me to write him before receiving a reply to my last letter?—Ruth.

Reply:—You are the best judge as to whether you should wait in silence or write him telling him that you have not received a reply to your letter. Often frankness in regard to these matters is the best course. There will be no harm in your writing in briefly asking if he received your letter, stating that you received no reply. Possibly his letter to you has not reached you. Some people are careless about their correspondence. If you find that his affection has cooled do not worry about it. It is better to learn of fickleness before than after marriage.

Dear Aunt Hannah:—I have been greatly pleased with the instructions you are giving young girls. I wonder that so many in their teens should come to you for advice concerning matrimony when you have so often expressed your good judgment by telling them that a girl of sixteen or seventeen is only old enough to begin to learn the real ways of life. I am a young girl myself but I realize how much I have to learn from experience to fit me for the future that a girl knows nothing of when seventeen years old. I was delighted with F. A. S.'s letter and would like to correspond with that young lady and will do so if she will kindly send me her address. My mother is helpless and since I am her only daughter at home I am like F. A. S., kept busy with other thoughts than fretting over the future. The future will be full of sunshine if we are only living as we should live, and learning as we should learn.—Dora M. Johnston, Rogersville, Pa.

Dear Aunt Hannah:—I consider your advice to young people the best I have ever read. I am a young girl of blonde type. Have lived all my life on the farm about eight miles from the railroad depot. Last year I spent eight months in the city and while there I met a young man to whom I became much attached at first sight. He seemed to be equally attracted to me. We kept company for six months and my affection for him continued to increase. Then he left the city writing to me three times on his way home, and we have corresponded until lately. I suggested, since we were not engaged to marry, it might be best to discontinue the correspondence but he desired to continue it. I did not write him more letters and soon I also left the city and went home. When I arrived home I met a young man who reminded me much of my city acquaintance. He has fallen in love with me but I can never love him. Can you give me helpful advice?—B. M. K.

Aunt Hannah's reply:—I do not understand why you should have severed your relations with the young man you met first in the city. You assign no reason for so doing. If you really love that young man better than any other person it might be well for you to write to him stating that you had made a mistake in cutting off correspondence, or in some way endeavoring to make friends with him again. This last young man whom you have met does not seem to enter into the problem at all since you do not care for him. In all these affairs, in fact all the affairs of life, a frank statement of actual facts and a frank confession of error will often bring about a happy condition.

Each Century Is a New Age in many respects. That which is accomplished to-day was not dreamed of one hundred years ago. I am not very old and yet I can remember the time when there were no shoe factories, when the shoe making was done by a man who traveled through our township stopping a few days or a week at our farm house to make the shoes for the family. No one thought then of buying a pair of shoes ready made for there were no factories. One hundred years ago wool from the backs of sheep did not go to the factory but was made up at the farm into yarn and weaved into various kinds of clothing. This necessitated great industry on the part of our forefathers. The girls were not taught to play the piano, or urged to attend boarding school but were kept at home weaving and spinning, or doing other important work. What the coming generation has in store for us is not easily foretold.

"And every living thing was drowned except what went into the ark," explained the Sunday school teacher.

"Fishes, too?" queried a small pupil.

OUR PREMIUM OFFERS

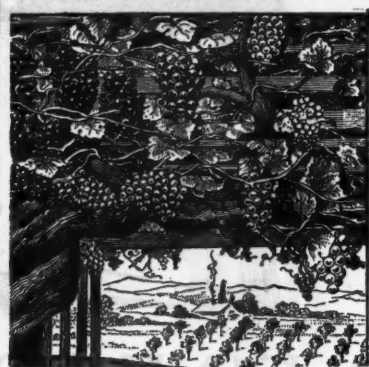


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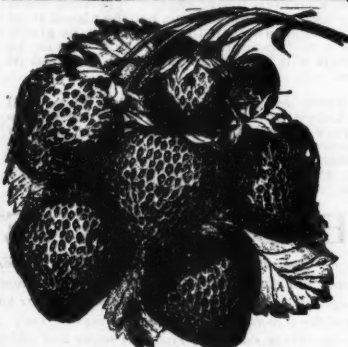
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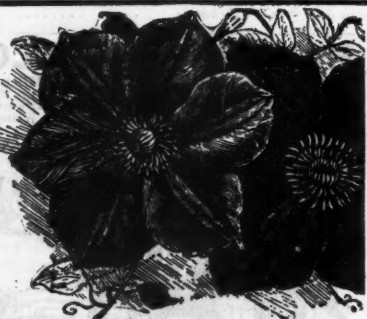
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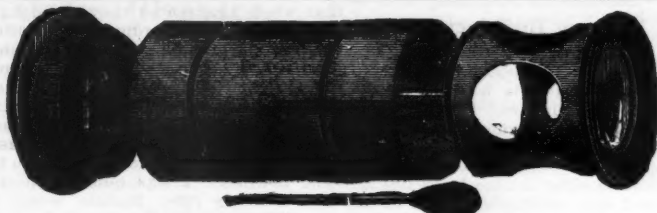
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Mad. Ed. Andre.—A distinct crimson red color, a very pleasant shade and entirely distinct from all others.

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This microscope is specially imported from France. As regards power and convenient handling, good judges pronounce it the best ever introduced for popular use. The cylindrical case is manufactured from highly polished nickel, while there are two separate lenses—one at each end of the microscope. The larger glass is a convex magnifier, adapted for examining insects of various kinds, the surface of the skin, the hair, fur, or any small articles. The other lens is exceedingly powerful and will clearly delineate every small object entirely invisible to the naked eye. Every farmer, family, school, and teacher should own a microscope. Send us 60c. for microscope and subscription to Green's Fruit Grower one year.

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PREMIUM No. 6.

Rubber Stamp



with your name and address. This is a valuable premium. It is a nickel-plated machine which you can carry in the pocket, with self-inking rubber type, which stamps your name and address on envelopes, letter heads, etc. so that your letters cannot go astray. Sent to all who send us 60c. for our paper one year, who claim this premium when subscribing.



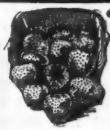
PREMIUM No. 8.

Two Hardy Roses.

Two-year old out-door rose bushes which will blossom same year planted, and will be of the choicest varieties. These bushes will be sent to all who send us 50 cents for our paper one year, who claim this premium when subscribing. We will select an assortment of colors from the following hardy hybrid perpetual varieties: General Jacqueminot, Prince Camille De Rohan, Coquette Des Blanchés, Coquette Des Alpes, Paul Neyron, Mrs. John Laing, John Keynes, La Reine, La France. The selection must be left entirely with us.

PREMIUM No. 7.

Corsican



Ten strong plants of this valuable strawberry, perfect blossoming variety, of largest size, fine color, firm, and productive, will be sent free to all who send us 50 cents for our paper one year, who claim this premium when subscribing.

PREMIUM No. 9.

Two in One—Combined Pruning and Budding Knife.



This beautiful pattern, buck handle, razor steel, Combination Pruner and Budder, should be in every man's pocket who grows fruit. We offer it with Green's Fruit Grower for two years for \$1.00.

PREMIUM No. 11.

4 Red Cross Currant Plants



Four well-rooted plants of the new Red Cross Currant, the largest and most productive red currant, very vigorous in growth, clusters long, will be sent to all who send us 50 cents for our paper one year, who claim this premium when subscribing.



PREMIUM No. 12.

ONE NIAGARA PEACH TREE.

A new peach ripening one week earlier than Elberta, remarkably free from yellows and leaf curl, and cannot be surpassed in healthfulness and vigor. It is of large size, beautiful, and better in quality than Elberta. One tree will be sent to all who send us 50 cents for our paper one year, and claim this premium when subscribing.

Enclose bank draft on New York, P. O. order or express money order, and your order will be filled. We prefer postage stamps to individual checks, which cost us 10 cents each to collect.

GREEN'S FRUIT GROWER, Rochester, N. Y.

Mandy's Jined the Club.

Wall, the fever's got ter Bushby, it hez found us here at last, An' looks ter me as ef our peace an' cumfer now was past. I've been readin' in the papers 'bout the clubs thet wimmen j'ined, An' naow, thinks I, our wimmen folks won't want ter be behind; An', sure enough, they're boomlin' 'em with all their might an' main, They talk 'bout 'em night an' day, they've got 'em on the brain. I tell yer what, it ain't no joke—I hev ter git my grub An' sew on trouser buttons, tew, sence Mandy j'ined the club.

They study up the humly weeds a-growin' 'round a stump, An' calkerlate haow many feet a grasshopper kin jump. The bedroom is a "boodwar" naow, a wrapper's a "neglijay." Oh, I'm sick o' this tomfoolery I'm hearin' every day. I wouldn't wonder if they faound some fancy name fer soot, Eut Mandy she gits hoppin' mad 'cause I jes say "Cat's foot!" I s'pose nex Monday mornin' I'll be washin' 't the tub, Fer I ain't surprisid at nothin' naow sence Mandy j'ined the club.

—Katherine L. Danlher in Boston "Globe"

Hunting Buffaloes.

"A party of fourteen of us were going south from Fort Kearney, Neb., on foot, with two mule teams to haul our camp equipment and supplies," related Mr. Richards. "One afternoon we were making our way leisurely along a ridge, when we suddenly descried on the summit of another ridge a huge black line at least a half mile in length. Those of us who had not been on the plains before could not make out what this line was, but we were informed by the chief of our party that it was a herd of buffalo.

"We could see plainly enough that with our heavily loaded teams we could not get beyond it. Our chief therefore promptly called a halt, gave orders that the two wagons be brought up close together, one behind the other and directed that the mules be unhitched, placed behind the wagons on the side opposite that from which the buffalo were coming and securely fastened to the wheels. Then one man was detailed to each mule to keep it as quiet as possible, while ten of us were instructed to fill our pockets with cartridges, form a line, go out to meet the buffalo and try to split them and keep them divided until they passed the wagons.

"The Spencer carbines with which we were armed shot a .50-caliber bullet with a charge of powder much too light for that weight of load and that kind of game. We went back some 300 yards from the wagons and opened fire. The rear end of the herd had not yet come up over the opposite ridge, so that we were confronted by a mass of buffalo half a mile long on the front and extending at least that far back. The animals were coming toward us at what was only a fast walk until we opened fire, and then broke into a gallop. To stop them was out of the question, for those in front were urged forward by those behind.

"I recall distinctly that when I fired my first shot, the front of the line being about 200 yards from us, I thought I had struck a horn, but when I had fired several shots and heard them all strike I knew I was hitting something besides horns. I thought noise might be of benefit at this time, so having good lungs I exerted them to the utmost, joined at once by the rest of the firing party. And my theory worked out all right. The noise of our guns and of our voices, with what execution our bullets were doing, caused the herd to divide and pass to each side of us. But we soon found ourselves in a precarious situation. When the herd was first split, the buffalo could see as well as hear us, and they veered off either way, but those that were following created such a noise themselves and raised such a cloud of dust that they could hardly see or hear us, and soon began to crowd in on us in a way exceedingly disquieting.

SITUATION EXCITING.

The animals were being forced backward and in and upon each other to such an extent that it became doubtful whether we were going to succeed in our effort. If we should fail it meant that we would be trampled under foot and the entire party as well as the outfit wiped off the face of the earth. We had been forced into a solid line and were splitting the herd, because we would not be doubled up or give way on either side. We had been going back foot by foot, had few cartridges left and it was becoming evident that we could not hold

out much longer when our backs came in contact with the wagons, and almost at the same instant we saw daylight ahead of us, and there was the end of the herd. The most remarkable thing about the whole affair was that when the herd had passed and the dust had settled there were only two dead buffaloes lying upon the plains, while more than 300 shots had been fired.

"Having a small supply of water in our wagons, we camped at the place where the fight had taken place, but got little sleep, as the herd stopped within a short distance of us. On account of the wounded buffalo and smell of fresh blood, they were in a state of turmoil all night, while the wolves—both coyotes and the large gray animals—kept up an incessant howling all night long. We moved on the next morning in good order with plenty of buffalo meat, the first we had obtained upon the trip.

"The buffalo is, under ordinary circumstances," continued Mr. Richards, "a docile animal, neither aggressive nor combative, but I had some experience with the animal which went to show that when aggravated they are dangerous. I found that ordinarily a buffalo, like any other wild animal with which I have had experience, will run from a hunter when given an opportunity, and that when wounded it will not ordinarily charge a man from a greater distance than about fifty yards. On one occasion I met one which was an exception to this rule, however. I was hunting on foot with a Henry rifle. Buffalo were not plentiful in the locality, but I finally sighted an old bull lying down on the plains. Hunting on foot, I needed meat badly, and could not afford to let this old fellow get away. I worked around directly behind him. Buffalo are not wary when lying down, and I approached to within about 150 yards, when I concluded I was about as close as I cared to be, took aim and fired.

"My bullet struck the sloping surface on a rib, made a slit in the hide and did no further damage. The old fellow jumped up and started to run at right angles to the line I was following, giving me a good shot at his side. I fired, but having underestimated the distance, the ball dropped and struck him just above the hoof of the foreleg. He then turned and came straight for me.

A FORTUNATE SHOT.

"There was nothing for me to do but to hold my ground and shoot. I could hear every ball strike him. He came on without the least hesitation, and I kept shooting as fast as I could, but after a few shots I became much alarmed respecting the number of cartridges remaining in my magazine. I had no time to look to see whether I was throwing in a cartridge every time I threw down the lever. Just as I was about to pull the trigger for another shot he stopped. He was so near I could have thrown my hat on his horns.

"The old fellow certainly presented a most terrifying aspect. I found two or three bullets in his forehead, flattened on his skull, while the ball which killed him had passed along the side of his neck and entered his body between the neck and the shoulder blade. But for that one fortunate shot, this story probably would never have been told."—Washington "Star."

Five million dollars a day is a snug sum for the people of a single country to realize as the sale of the products of their farms, factories, forests, fisheries and mines. The exports of domestic products of the United States in the month of October, 1903, averaged more than \$5,000,000 for every day in the month, and for every business day in the month averaged practically \$6,000,000 a day. The total exports of the month, as shown by the figures of the department of commerce and labor through its bureau of statistics, amounted to \$160,370,059, which would average more than \$5,000,000 for every day in the month and practically \$6,000,000 for each business day in the month. From the port of New York alone the exports of the month were \$51,867,942, or nearly \$2,000,000 for each business day of the month. This exportation in October, amounting to \$160,000,000, exceeds that of any preceding month in the history of our commerce, with the single exception of October, 1900, when the total was \$162,359,680. For the ten months ending with October, the total exports were \$1,149,694,933, and for twelve months ending with October the total was \$1,422,887,954. These totals for ten and twelve months, respectively, are larger than in any preceding year except 1901 and 1900, in which ten and twelve months totals slightly exceeded those of the present year.

"Now that I've met Brown's wife I quite understand why he is so dictatorial at the office. He has to have some place where he can show authority."—Chicago "Post."

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is different from any other you ever saw. It cleans the clothes of a small wash as well as a large one. It takes the dirt as thoroughly out of the wristbands, neckbands, collars, etc., as it does out of sheets, pillow cases and table cloths. It will wash one pair of socks as cleanly as it will a tubful of sheets. With the double rotary motion you do the same amount of cleaning with ONE HALF the amount of labor and within a quarter of the time that any other washer requires. We don't ask you to accept our word for this, we simply want an opportunity to prove to you, without asking for a cent of your money, that our Standard Washer will do all that

we claim for it. It don't cost you a cent to make the test, we deliver it free of charge right to your door. You keep it and try it for thirty days. If you do not find it does all and even more than we claim for it, if you don't find it to be the easiest working machine you ever saw or heard of, if you don't say after thirty days' trial, that it is a heaven-sent blessing to every woman who has to wash clothes, then we will be glad to make you a present of the machine, free of any charge whatever. If you want us to send a washer **FREE ON TRIAL**, for use in your own family, or if you want to act as our agent in your neighborhood, send us your name and address and you will hear from us by next mail. **WIARD MFG. CO., 63 West Ave., East Avon, N. Y.**



A FINE BOOK FREE

A splendid new book—a work that will be of tremendous, incalculable value to all who receive it—has just been issued at a cost of over \$5000 by a distinguished specialist, a man famous in Europe and America for his noble scientific and humane work. Regardless of the great expense of publishing this work, its author will give away 15,000 copies, absolutely free of charge. The work could easily have made his fortune, had he placed it on sale. Casting away all thought of gain, he gladly offers it to the public as a free gift, because he knows it will mean life itself to all who read its pages.

For years its author, Dr. Sproule, B. A., well known as a leader among the great philanthropists of North America, labored night and day to discover a perfect, permanent cure for Catarrh. He sacrificed time, energy and money to gain his end. Step by step he worked his way along new paths, outstripping his rivals on two continents.

At last his efforts were crowned with success! He had discovered what all other searchers had long despaired of finding—an easy, perfect, permanent cure for Catarrh. With no thought of rest from his arduous labors, he wrote this wonderful work on the cure of Catarrh. With no thought of the wealth it could easily win him, he now offers it free to all who ask for it.

The information in its pages will save thousands of lives. Written by a man heart and soul in earnest in his great work of fighting disease, its lines fairly throb with purpose and truth. With skillful hand he lays bare the beginnings of this loathsome, treacherous disease—he traces all its hidden workings—he shows the awful dangers to which it leads—he points out the way to a safe and lasting cure—the only one—that terrible scourge of North America—Catarrh. Fine pictures by the best artists illustrate the different phases of the disease and the various organs affected by it, in an exceeding clear and interesting manner.

SEND FOR THE BOOK AT ONCE

Do not delay as the edition is going rapidly. The demand for the book is enormous. Everybody wants it. Already grateful letters are coming back from those who have received it. It is doing all and more than Dr. Sproule in his sympathy and wholeheartedness had planned for it. If you or any of your family need it, send for it to-day. It is offered willingly—freely—gladly—that you may avail yourself of its wonderful aid—its certain relief. Write your name and address plainly on the dotted lines, cut out and forward to **DR. SPROULE, B. A., (Graduate Dublin University, Ireland, formerly Surgeon British Royal Naval Service), 11 to 15 Doane St., Boston, Mass.,** and you will receive this valuable book free of all charge.

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ADDRESS.....

HAVE RICH MELLOW LAND.

That condition is sure to follow through draining with JACKSON'S Round and Square Drain Tile. For 45 years we have been making these and Trench, Encaustic Sidewalk Tile, etc. Supply Mortar Colors, Plaster, Lime, Cement etc. Write for prices. John H. Jackson, 102 3rd Av. Albany, N. Y.



THIS LITTLE BOOK, under paper cover, gives the experience of the editor of Green's Fruit Grower in beginning and succeeding at fruit culture on a fertile but run down farm, after having spent fifteen years behind a bank counter in a large city. Those who are about to begin fruit growing will get many suggestive hints and words of encouragement by reading this book, containing sixty-four pages, well illustrated. We will mail this book, postpaid, for twenty-five cents, or will send it as a premium to all who send fifty cents for Green's Fruit Grower one year, and claim this premium when subscribing.

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ALL FOR \$1.00

Address GREEN'S FRUIT GROWER, Rochester, N. Y.

A Romany Lullaby.

Hushaby, hushaby. Sheep bells are tinkling;
Long lie the shadows on meadow and fold;
Brooks babble drowsily, while crocus blossoms
Nod o'er the ripple, their nightcaps of gold.

Baby, now hushaby. List to my singing,
Songs that thy grandmother learnt from the moon,
Sang to thy mother, thus wakeful before thee,
Sleep in thy turn, baby, sleep while I croon.

Hushaby, hushaby. Flickering camp fires
Redden the dewdrops on meadow and fold;
White moths brush lightly my cheek as they hover,
Brushing my cheek are thy lashes of gold.

Baby, now hushaby. Sleep to my singing.
Cold lie the sheep underneath the white moon,
Warmly my little bird nestles besides me.
Hushaby, lullaby. Sleep while I croon.

—E. D. C., in "Evening Star."

Properties of Salt.

As a general all-round household remedy, there is nothing more valuable than salt.

A bag of hot salt is very soothing in neuralgia, toothache, earache and similar affections. In croup it is a reliable and harmless remedy, the dose being a teaspoonful mixed with a tablespoonful of honey, frequently and freely.

For a sprain nothing will give relief more quickly than cold salt water; swelling may often be reduced very quickly by frequent bathing of the part affected in strong brine, and, taken moderately, it is an antidote for alcoholic poison. It is an excellent hair tonic.

Salt and water will remove tartar from the teeth, and, mixed with equal proportions with soda, salt makes an excellent dentifrice. In cases of dysentery salt, taken in vinegar and hot water, usually gives great relief, and for cholera morbus add a teaspoonful of the strongest pepper to the dose.

For dyspepsia and many other disorders of the stomach salt and water will prove an effective remedy; and for colic a teaspoonful in half a cupful of cold water, taken as soon as possible, is a speedy cure. The same quantity taken before breakfast is very good. The West Indian negroes declare that plenty of salt, administered at once, will stop a coming attack of cholera.—Philadelphia "Ledger."

New Eyes Developed.—That "mixed multitude" of animals classed together by naturalists as mollusks, which include the lie-abed oyster and the wide-awake cuttle-fish, contains also the snail, famed for its marvelous speed, its habit of evading the ground landlord by carrying its house on its shoulders, and for its ability to open new eyes should the originals be permanently darkened. The eyes, as is well known, are carried at the ends of two horns and can be pulled in or thrust out with more than mechanical ease and precision. If the eyes are lost by any accident, the life which pervades the creature, beginning from the mere stumps, builds up the optic nerves afresh, furnishes them with appropriate cases, and places accurately constructed lenses at the ends.

In the case of a human being who has lost his eyes the ophthalmist has nothing more practical to do than to send in his bill, and the optician is reduced to the construction of glass eyes, or some other appliance to hide the deformity; whereas the snail, treated in the ophthalmic hospital of nature, grows new eyes and goes merrily but sedately to his revels on a tender cabbage leaf under the moon.

Few insects are known to replace lost members, although they are frequently found minus a foot or one of their antennae. This is probably due to the fact that most insects emerge suddenly into the mature form, when growth practically ceases, and it is in the immature stage that uncommon growth is most marked.

Two insects, however, which grow from larvae to perfect individuals without any great change of form, are able to replace lost antennae or legs. Earwigs begin life with antennae of eight joints each, and by subdivision increase the joints to fourteen. The antennae are brittle, and joints frequently break off, but are readily replaced, the disturbance arising from the fracture often producing a variation from the usual number.

OUR CLUBBING OFFER WITH THE NEW YORK TRIBUNE FARMER.

NOTICE that 50 cents pays for the Tribune Farmer Weekly and Green's Fruit Grower for one year. This is a proposition that should not be overlooked by our readers. Remember that our offer is to send you the Tribune Farmer Weekly for 1 year and Green's Fruit Grower for 1 year, all for 50 cents.

We Will Buy

A 50c. Bottle of Liquozone and Give it to You to Try.

Liquozone is the only way known to kill germs in the body without killing the tissues, too. It is the only way to end the cause of any germ disease. It is also a vitalizing tonic with which no other known product can compare.

It is new in America, and millions who need it don't know of it. For that reason, we make this remarkable offer. We will buy the first bottle and give it to you if you need it. We will do this gladly to let the product itself show you what it can do.

We Paid \$100,000

for the American rights to Liquozone—the highest price ever paid for similar rights on any scientific discovery. We did this after testing the product for two years, through physicians and hospitals, in this country and others. We paid it because Liquozone does what all the skill in the world cannot do without it. Any drug that kills germs is a poison, and it cannot be taken internally. Every physician knows that medicine is almost helpless in any germ disease.

Not Medicine.

Liquozone is the result of a process which, for more than 20 years, has been the constant subject of scientific and chemical research. Its virtues are derived solely from gas, made in large part from the best oxygen producers. By a process requiring immense apparatus and 14 days!

time, these gases are made part of the liquid product.

The result is a product that does what oxygen does; and oxygen is the very source of vitality, the most essential element of life. The effects of Liquozone are exhilarating, vitalizing, purifying. Yet it is a germicide so certain that we publish on every bottle an offer of \$1,000 for a disease germ that it cannot kill. The reason is that germs are vegetables; and Liquozone—like an excess of oxygen—is deadly to vegetable matter. That is why Liquozone kills every disease germ, and with a product which to the human body is life.

Germ Diseases.

These are the known germ diseases. All that medicine can do for these troubles is to help Nature overcome the germs, and such results are indirect and uncertain. Liquozone kills the germs, wherever they are, and the results are inevitable. By destroying the cause of the trouble, it invariably ends the disease, and forever.

Asthma	Hay Fever—Influenza
Abcess—Anemia	Kidney Diseases
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Blood Poison	Leucorrhea
Bright's Disease	Liver Troubles
Bowel Troubles	Malaria—Neuralgia
Coughs Colds	Many Heart Troubles
Consumption	Piles—Pneumonia
Colic—Croup	Pleurisy—Quinsy
Constipation	Rheumatism
Cataract—Cancer	Skin Diseases
Dysentery—Diarrhea	Scrofula—Syphilis
Dandruff—Dropsy	Stomach Troubles
Dyspepsia	Throat Troubles

Eczema—Erysipelas
Fever—Gall Stones
Goitre—Gout
Gonorrhea—Gleet

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Women's Diseases

All diseases that begin with fever—all inflammation—all catarrh—all contagious diseases—all the results of impure or poisonous blood.
In nervous debility Liquozone acts as a vitalizer, accomplishing what no drugs can do.

50c. Bottle Free.

If you need Liquozone, and have never tried it, please send us this coupon. We will then mail you an order on your local druggist for a full-size bottle, and we will pay your druggist ourselves for it. This is our free gift, made to convince you; to show you what Liquozone is, and what it can do. In justice to yourself, please accept it to-day, for it places you under no obligation whatever.

Liquozone costs 50c. and \$1.

CUT OUT THIS COUPON

for this offer may not appear again. Fill out the blanks and mail it to the Liquid Ozone Co., 458-460 Wabash Ave., Chicago.

My disease is.....
I have never tried Liquozone, but if you will supply me a 50c. bottle free I will take it.

M102 Give full address—write plainly.

Any physician or hospital not yet using Liquozone will be gladly supplied for a test.

Good Buggies and How They Are Made

The above is the title of my new book which has just been published. It should be in the hands of every buggy user, as it not only treats fully on the construction of a buggy from the ground up, but teaches the reader how to tell a good buggy from a poor one. No matter whether you intend buying a new buggy now or later on, this book contains information that will be of great value to you, as it not only tells you how each and every part of the buggy is made, but illustrates by actual photographs, taken from our factory, the method of making and finishing the different parts. If you have never had the opportunity to go through a large carriage factory and see just how the work is done, this is a chance for you to do the next best thing; in fact, this really gives you a better opportunity to study the different methods of construction than you would have in a hurried trip through a factory. The regular price of the book is FIFTY CENTS, but for a limited time only it will be sent absolutely free of charge, postage prepaid, to any reader of this paper who will answer the questions in the coupon below. Address:

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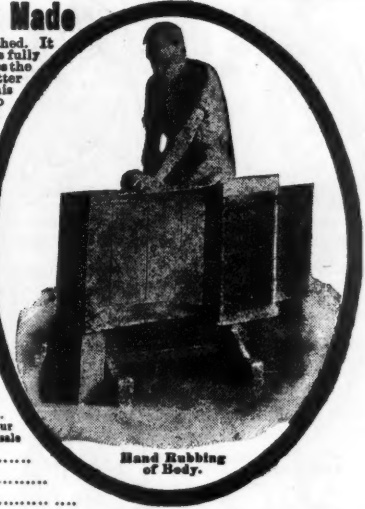
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Working Axles.



Hand Rubbing of Body.

Sand as Building Material.—Houses of sand, as substantial as granite, are offered by the new process of Mr. L. P. Ford, of Gresford, England. A mixture of sand and quicklime in suitable proportions is forced into a very strong steel mold, which is placed in a box, from which the air is then pumped, when hot water is admitted. The heat and pressure of the slacking lime and steam mold the materials into a rock having 50 per cent. of the strength of granite. This building stone, ready for use in eight hours, is very durable and its cost is low, bricks by this process costing little more than half as much as the ordinary.

Mrs. Cassidy—"We'll have to be getting a pianny for Mary Ann to be learning music."

Mr. Cassidy—"I'll buy her one on one condition—that she don't start to learn to play till she knows how."—Catholic "Standard and Times."

"The man that won't take 'no' for an answer," says the henpecked husband, "will probably live to regret it."—Philadelphia "Record."

"Forgive that kiss! I lost my head!"
Cried timid Mr. Smith;
"Indeed! Who was it then?" she said.
"You used to kiss me with?"
—Philadelphia "Ledger."

Color of Autumn Leaves.—The changes of color of leaves in autumn are found by Dr. Keegan, an English investigator, to depend on the mineral matters, especially the silica and lime. Leaves that become red are those containing less than 10 per cent. of silica, while those that become yellow or brown have more than 10 per cent. The mineral matters seem to flow to the dying leaf in quantity proportionate to the decay of its vitality, and the American climate sustains the

vitality of the leaf to a degree not possible in England, where Indian summer is rare.

Apples for Children.—A letter says: "Why don't you say more about the value of the apple as food?" One of our ablest teachers says that he wishes that the school luncheon could be confined to apples. He is satisfied that it would be better for the health and the school work of the children. He says, "I wish that plenty of apples could be supplied to every school boy and girl; for I am assured that better health, and consequently better morals would be the result." "Some one else recommends that barrels of apples, where there is a surplus stock, be sent in by the growers to the graded schools. 'Let these be placed in charge of the teachers to be used with entire freedom by the children at the noonday luncheon.' If this would work well in the country schools it would work far better in the city schools."—Tribune.

Human companionship counts for so much in this life; but, after all, the sharpest corners are to be turned alone.—Elizabeth Stuart Phelps.

Much interest has lately been aroused in London by two surgical operations which have resulted in a marked change of character in the patients. One was that of a boy of good family who had developed strangely brutal instincts. A clever surgeon examined him with care, locating what he considered the seat of the trouble, removed a piece of the skull and thus relieved the deforming pressure. The lad was restored to his parents a normal and lovable child. The other case was that of a soldier who, after an injury in a skirmish, developed a propensity for theft. An operation on the brain cured him.

Better Than Gold.

Better than grandeur, better than gold,
Than rank or titles, a hundred fold,
Is a healthful body, a mind at ease,
And simple pleasures that always please.
A heart that can feel for a neighbor's woe,
And share in his joy with a friendly glow,
With sympathies large enough to infold
All men as brothers, is better than gold.

Better than gold is the sweet repose
Of the sons of toil when their labors close;
Better than gold is the poor man's sleep
And the balm that drops on his slumbers deep.

Better than gold is a thinking mind,
That in realms of thought and books can find
A treasure surpassing Australian ore,
And live with the great and good of yore.

Better than gold is a peaceful home,
Where all the fireside charities come—
The shrine of love and the haven of life,
Hallowed by mother, or sister, or wife.
However humble that home may be,
Or tried with sorrows by Heaven's decree—
The blessings that never were bought or sold,
That center there, are better than gold.

—Alexander Smart in New York "Witness."

"Here's to that bundle of sentient nerves, with the heart of a woman, the eye of a gazelle, the courage of a gladiator, the docility of a slave, the proud carriage of a king, the blind obedience of a soldier; the companion of the desert plain; that turns the moist furrows in the spring in order that all the world may have abundant harvest, that furnishes the sports of kings, that with blazing eye and distended nostril fearlessly leads our greatest generals through carnage and renown, whose blood forms one of the ingredients that go to make the ink in which all history is written, and who finally, in black trappings, pulls the humblest of us to the newly sodded threshold of eternity."—Rider and Driver.

Some Up to Date Fashions

For the convenience of the ladies in the homes of our subscribers we have made arrangements with one of the largest and most responsible manufacturers of patterns to offer some of their reliable patterns at the nominal price of 10c each. We have tested these patterns and take pleasure in recommending them to our readers.

4623—The quantity of material required for the medium size is 10 1-4 yards 21 inches wide, 5 yards 44 inches wide or 4 1-4 yards 52 inches wide, with 2 1-4 yards all-over lace, 6 yards fur and 6 1-4 yards of lace to trim as illustrated.



4623 Evening Coat,
32 to 40 bust.



4610 Military Coat,
32 to 40 bust.

4610—The quantity of material required for the medium size is 4 1-4 yards 44 inches wide or 3 5-8 yards 52 inches wide.

4626—The quantity of material required for the medium size is 4 yards 21 inches wide, 3 3-4 yards 27 inches wide or 2 1-4 yards 44 inches wide.



4626 Tucked Blouse,
32 to 40 bust.



4627 Misses' Shirt
Waist, 12 to 16 years.

4627—The quantity of material required for the medium size is 4 1-4 yards 21 inches wide, 3 1-2 yards 27 inches wide or 2 yards 44 inches wide.

4613—The quantity of material required for the medium size is 3 1-4 yards 27 or 36 inches wide when made without a seam, 3 1-4 yards 27 or 2 1-4 yards 36 inches wide when made with a seam, with 2 yards 21 or 1 yard 27 or 36 inches wide for bands.



4613 Invalid Wrap,
32, 36, 40 bust.



4624 Five Gored
Flare Skirt,
22 to 36 waist.

4624—The quantity of material required for the medium size is 7 1-2 yards 21 inches wide, 4 yards 44 inches wide or 3 1-2 yards 52 inches wide when material has figure or nap; 3 1-4 yards 44 or 2 3-4 yards 52 inches wide when material has neither figure or nap.

4605—The quantity of material required for the medium size (10 years) is 4 1-2 yards 21 inches wide, 3 3-4 yards 27 inches wide or 2 1-2 yards 44 inches wide, with 1 7-8 yards 36 inches wide for gumpie.



4605 Girl's Box Plaited
Suspender Costume,
6 to 12 years.



4609 Stole Collarettes,
one size.

4609—To cut either one will be required 1 1-2 yards 27 inches wide. The pattern 4609 is cut in the medium size only.

To get BUST measure put the tape measure ALL of the way around the body, over the dress close under the arms.

Order patterns by numbers, and give size in inches. Send all orders to GREEN'S FRUIT GROWER, Rochester, N. Y.

First Principles.

Written for Green's Fruit Grower by Walter Scott Haskell.

God, the eternal, had no beginning; therefore Creation has to do with things which had a beginning—temporal things. Logic assumes that the "I am" of Deity, is at the center of the wheel of Deific thought; and that time and manifestation is the circumference. At the center of every wheel, is a point where motion ceases; and at the center of Deific consciousness is a presumed point where consciousness ceases—a negative state, unilluminated because it is the eye, and the eye cannot see itself except it be reflected.

This is the Mother darkness out of which comes the light. In this negative sea of calm—the womb of Deific thought—divine ideation has its birth. By the eternal inherent law, the Mother conceives immaculate and brings forth the object of her desire—expression. The Son thus born of the Mother, proves to be the Father of Light. Hence, the Father and the Son are one from the very inception of Deific thought.

Light is positive; darkness is negative. Deific ideation is, therefore, negative and impersonal; while the thought engendered by ideation—the Son and Father of light—is positive and personal. God, then, is impersonal in a Maternal sense, and personal in a Paternal sense. But the spirit of the Father reaches human intellects through the operation of the law involving the ideation of the Mother; hence the relation of Deity to mortals would seem to be impersonal. The "still small voice" reaches us in the calm, from the side of ideation—love; and not from the positive thinking mind immersed in the whirl and delusion of mundane thought. Hence, the emotional nature, is the receptive side of the mind's activities and should never be unduly suppressed.

All of the visible is delusion; because the real is never seen with the naked eye. God cannot be seen, but his qualities can be sensed through the things visible and temporal; as, the beauty of the landscape; the majesty of the sea.

God is everything; but appearances are deceptive. I am something, therefore a part of the everything. I am God in essence, because a part of the indivisible, but I am only a mortal in expression. The light of the All-knowledge is dormant within me; it shines forth only as I learn to perceive it. My light is mortal, but the sparks that fly upward, are immortal.

God speaks in nature, and His voice is as a calm summer's day. His work is to perpetuate the present. It is a labor of love, and therefore not work, but play. Love of life is the mainspring of life.

Every thought that goes out from God must return, a self-conscious radiant center like unto its parent; in truth, the parent with life renewed, the eternal present perpetuated.

Horticultural Briefs.

Fresno county, Cal., raisin crop is now estimated at 80,000,000 pounds. Only a few years ago we imported all our raisins.

Since the commencement of the apple season the Atlantic Transport line has shipped 120,000 barrels to London.

The garden plot may be changed every two or three years in order to prevent disease of plants. The plot for the garden should be selected at this season of the year.

The California fruit canners' plant at Santa Rosa this season put up 3,672,576 cans of berries, fruits and tomatoes.

The largest shipments of apples which ever left New York recently arrived in Bremen on the North German Lloyd steamer Main, which sailed from New York November 19th. It consists of 22,929 barrels and 1,540 boxes.

Long years ago, says California Cultivator, a little band of Jesuit padres at San Gabriel planted the first cuttings of grape vines in California, and from these few chance cuttings brought from sunny Spain has grown the wine industry of the state.

A California rancher says that every blackbird is worth \$5 to the fruit grower as a pest destroyer.

The net value of the grape crop in Fresno county annually is about \$2,500,000. Cost of production, \$25 an acre. Gross returns an acre, about \$125.

Up to November 14th the Fresno Raisin association had received 46,000 tons of raisins, which the California Cultivator says is 550 tons in excess of last year. The amount paid for the year's product is \$2,400,000.

It is said there will be 4,000 orchids shown at the World's fair from Filipino land alone. They were gathered by Dr. Gustave Niederlein in various islands of the archipelago.

When a man makes an ostentatious display of his wealth he advertises himself as an easy mark.

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Where more than one of the papers is wanted, a deduction of 25 cents from the clubbing price will be allowed for each additional publication desired, thus giving but one subscription to Green's Fruit Grower.

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1 00	Agricultural Epitomist, Spencer, Ind.....m.	70	1 50	Table Talk, Philadelphia.....m.	1 20
1 00	Agricultural Experiments, Minneapolis.....m.	50	1 50	Tennessee Farmer, Nashville, Tenn.....w.	85
1 50	American Agriculturist, New York.....w.	1 10	1 50	Texas Farmer, Dallas.....w.	60
1 50	American Bee Journal, Chicago, (new).....w.	1 10	1 50	Texas Farm Journal, Dallas.....w.	85
1 00	American Farmer, Indianapolis.....m.	50	1 50	Texas Stockman and Farmer, Dallas.....w.	1 25
2 00	American Inventor, Washington, D. C.....s-m.	1 55	1 00	The Farmer's Wife, Minn.....w.	60
2 00	American Gardening, New York.....w.	1 25	1 00	Up-to-Date Farming, Indianapolis.....m.	60
1 50	American Mother, Battle Creek, Mich.....m.	85	1 50	Vegetarian, Chicago.....m.	85
75	American Poultry Advocate, Syracuse.....m.	45	1 00	Vick's Family Mag., Rochester, N. Y.....m.	50
1 00	American Poultry Journal, Chicago.....m.	60	1 00	Western Fruit Grower, St. Joseph, Mo.....m.	80
1 50	American Sheep Breeder, Chicago.....m.	1 10	1 25	Wisconsin Agriculturist, Racine, Wis. (new).....w.	80
1 00	American Swineherd and "The Hog Doctor," Chicago.....m.	70	1 25	Wisconsin Farmer, Madison.....w.	85
2 50	Breeders' Gazette, Chicago.....w.	1 85	60	Woman's Farm Journal, St. Louis.....m.	40
1 50	Creamery Journal, Waterloo, Iowa.....m.	1 20	1 50	Woman's Home Companion, Springfield, O.....m.	1 10
2 00	Country Gentleman, Albany.....w.	1 25	1 00	Woman's Magazine, St. Louis.....m.	40
1 50	Dairy World, Chicago.....m.	90	1 00	Woman's Poultry Journal, Cedar Rapids.....m.	75
1 50	Farm, Field and Fireside, Chicago.....w.	95	1 50	Woman's Tribune, Washington, D. C.....w.	1 10
1 00	Farm and Fireside, Springfield, O.....s-m.	55	1 00	Woman's Work, Athens, Ga.....m.	60
1 00	Farm and Home, Springfield, Mass.....s-m.	60	2 25	World's Events, Danville, N. Y.....m.	75
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1 50	Farm Poultry, Boston.....s-m.	75	2 30	Ainslee's Magazine, New York.....m.	2 00
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1 50	Nebraska Farmer, Lincoln.....w.	95	1 00	Motherhood, New York.....m.	1 10
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1 50	Overland Monthly, San Francisco.....m.	1 15	3 50	Outing, New York.....m.	2 60
75	Park's Floral Magazine, La Park, Pa.....m.	40	1 50	Photo-American, New York.....m.	1 10
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1 50	Practical Farmer, Philadelphia.....w.	1 10	5 50	Puck, New York.....w.	4 35
1 50	Prairie Farmer, Chicago.....w.	1 10	1 50	Puck Library, New York.....m.	1 10
1 00	Poultry Herald, St. Paul.....m.	70	3 00	Review of Reviews, New York.....m.	2 35
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Youth's Department.

Don't Worry.

What's the use Of fretting? If you've troubles Try forgetting. Take things easy—Praise or blame—The world will wag on Just the same. What's the difference, Anyhow. A hundred years From now? Don't anticipate Your sorrow. When it comes, No need to borrow. Get your sleep out, Troubled one. You cannot rush The slow old sun. So let the seasons Come and go, Bringing with them Weal or woe. Use the moments As they fly, Nor try to help them Hasten by. In life's long race You needn't hurry. And if you'd win it Don't—don't worry!
—Chicago "Tribune."

A New Year's Greeting to Youth

Written for Green's Fruit Grower by Mrs. L. Jennings.

And now children as you must spend much of your time and energies at school studies, there will not be much leisure for other reading through the school term.

Let me beg of you, do not indulge in novel reading, as it spoils the taste for your studies, besides taking up valuable time. This warning comes from one who knows, and may tell you why some future time.

Most of you have other duties to perform, as well as studies, and it is well you have. It is said, "change of work is good as a rest." Very true, school studies occupy much time, but do you know, if every hour is improved, there is time for all things. One may say, "why I have nothing to do but to dress, eat, go to school, come home, eat, get my lessons, go to bed." This may be all true, but do you feel quite satisfied? Is there not some kind deed you could do for another? There are many things a bright boy or girl can do. On the way to school perhaps lives an invalid, a feeble grandpa or grandma. Start a little early, drop in, read a bright sketch or speak a piece you have learned. How it would brighten the day for the invalid and yourself as well. Bear this fact in mind, you can not do a kind act for another, without brightening your own life, neither can you do another an injustice without darkening the day for yourself. Always strive to do the right thing at the right time.

The Nurseryman's Sons.—Boys will see from the following authentic incident that success in life depends very much upon one's self.

Some forty-five years ago, Mr. H., a nurseryman in New York state, left home for a day or two. It was rainy weather and not the season for sales, but a customer arrived from a distance, tied up his horse and found his way to the kitchen of the farm house, where two lads were cracking nuts.

"Mr. H. at home?"

"No, sir," said the eldest, Joe, hammering at a nut.

"When will he be back?"

"Dunno, sir. Maybe not for a week." The other boy, Jem, jumped up and followed the man out. "The men are not here, but I can show you the stock," he said, with such a bright, courteous manner that the stranger, who was a little irritated, stopped and followed him through the nursery, examined the trees and left his order.

"You have sold the largest bill that I have had this season, Jem," his father, greatly pleased, said to him, most approvingly, on his return.

"I'm sure," said Joe, sullenly, "I'm as willing to help as Jem, if I'd thought in time."

A few years afterwards these two boys were left by their father's failure and death with but two or three hundred dollars each. Joe with his little legacy bought an acre or two near home. The land was poor, the crops scanty, the market low. He has worked hard and faithfully, but is still a poor, discontented man.

Jem bought an emigrant's ticket to Colorado, hired as a cattle driver for a couple of years, with his wages bought land at forty cents an acre, built himself a house and married. His herds of cattle are numbered by the thousand, his land has been cut up for town lots, and he is ranked as one of the wealthiest and most promising men from every standpoint in the state.

Thoughtfulness, snap, industry and courtesy, would, if possessed by Joe, have placed him upon as good a footing.
—G. B. Griffith.

SALZER'S SEED NOVELTIES

SALZER'S NATIONAL OATS.
Yes, farmers of America, lend me your ears, while I chant the merits of this new Oat Novelty.
Editors, Agricultural Writers, Institute Orators, all talk and write about this new Oat. It yielded in Wis. 158 bu., in Ohio 187 bu., in Mich. 231 bu., in Mo. 255 bu., and in N. D. 210 bu. per acre, during 1903, and in 1904 you can grow just as easily 200 bu. per acre of Salzer's National Oats, as we can. Your land is just as good, just as rich and you are just as good a farmer as we are. We hope you will try this Oat in 1904, and then sell same for seed to your neighbors at a fancy price, next fall.

Macaroni Wheat.
It does well on arid, dry lands, as also on rich farm lands, yielding from 30 to 50 bu. per acre.

Speltz and Hanna Barley.
Greatest cereal food on earth. Yields 4 tons elegant straw hay and 80 bu. of grain, as rich as corn, oats and wheat ground together! Does well everywhere. Hanna Barley grows on dry, arid lands, yielding 80 bu. per acre.

Salzer's Home Builder Corn.
Positively the biggest eared early corn on earth, yielding in Ind. 107 bu., Ohio 100 bu., Tenn. 100 bu., Mich. 220 bu., and S. D. 276 bu. per acre. It is really a marvelous corn. Sinks its roots deeply after moisture and nourishment and grows like a weed.

Bromus Inermis and Alfalfa Clover.
Bromus Inermis is the most prolific grass for permanent pastures on earth. Yields 7 tons hay per acre. Good on sand, lime, clay, gravel—yes, on all kinds of soils!
Alfalfa Clover produces more hay and better hay than any Clover known. It is good for 7 tons per acre.

Potatoes 736 bushels per Acre.
The Editor of the Rural New Yorker says, "Salzer's Earliest Potato is the earliest out of its early sorts tried, and yields 464 bu. per acre, while Salzer's Early Wisconsin yielded for them 736 bu. per acre. Salzer's Potatoes for yield challenge the world!"

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and the name of this paper, we will send you a lot of farm seed samples, including some of above, together with our mammoth 140 page illustrated catalog. Send to-day.

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Save their cost before they show any evidence of use. Cuts green food of all kinds for cattle, sheep, and poultry, thus securing the greatest benefit from food with no waste. Easily operated, any child can do the work. Cuts rapidly. It supplies the best possible manner of preparing this food at all times for sheep and cattle. The knives in cutter can be removed and resharpened, making a practical, durable, convenient, economical, and valuable machine.
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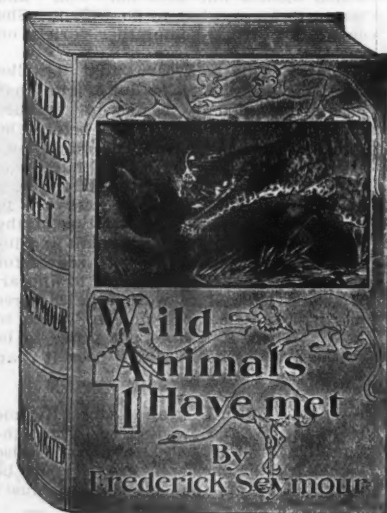


Reliable, substantial, convenient, compact. Price complete, 85 cents.

The No. 1 Bone, Shell and Corn Mill for Poultrymen.
This mill will grind dry bones, shells, all kinds of grain, gravel, etc. It is also a splendid machine for grinding stale bread, crackers, roots, barks and spices for poultry or poultry yard. One customer writes that he ground and sold \$106.00 worth of oyster shells on the No. 1 mill and it is as good as new. Regular price, \$5.00. Special price for 30 days, \$3.95.

Green's Nursery Co., Implement Dept., Rochester, N. Y.

This \$5.00 Book Given Away



WILD ANIMALS I HAVE MET

Is the title of an elegant \$5.00 book, 500 pages, 300 photographs, by the great Frederick Seymour, Naturalist. We will send you this book for your services if you will secure a club of ten subscribers at thirty-five cents each, without premium. Or, we will send you this \$5.00 book if you will send us five subscribers for Green's Fruit Grower for five years each, sending us \$5.00 for these five subscriptions, each of which is to continue five years, without premium.

This is a book of natural history and thrilling experiences, the result of a lifetime of effort. It is unlike any other book on animals. It combines the most interesting and valuable facts of natural history with the most exciting experiences and thrilling adventures. The author has circled the globe in search of a knowledge of wild animals. Well worth \$5.00.

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Our Brunswick Seven Drawer, High Arm, Ball Bearing, Drop Head Machine is a beauty, one that will do all kinds of work and can be depended upon. Price is much lower than any other firm asks for equal quality. Mounted on handsome Automatic Drop Desk Quartered Oak Cabinet-like picture, only 16.95

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HIS ANSWERS TO INQUIRIES.

Will tramping snow hard with the feet about each tree prevent mice from barking the trees during winter? Is there no better remedy for rabbits than shooting them?—George Eastman, Mo.

Reply: Yes, it will do considerable good to tramp the snow next the bodies of fruit trees in the way of keeping mice from eating the bark off them. Smearing the bodies with blood or liver of any kind, is a good preventive against rabbits, as long as it lasts, but it washes off. When the snow gets deep and rabbit food is scarce they will eat the bark of trees that they would not touch before. Wrapping with rags, paper, hay or something else that they will not bite through is the only really safe preventive. The latter part of the winter is the worst time for their depredations.

Since labor has been higher during the past few years and nurserymen have been compelled to spray their nurseries and fight insects more persistently than in former years may we be led to expect that prices of nursery stock will be higher?—George Gordon, N. H.

Reply: Certainly, nursery stock of nearly all kinds is likely to increase in price slightly, and it should be so, to enable the nurserymen to grow good trees and at a profit to themselves. Every large nursery should have an expert entomologist and vegetable pathologist, that is a plant doctor, in their employ constantly. It should be his duty to watch everything on the place and keep down all diseases and insect pests. This would give us a much better class of nursery stock than we now have and pay all parties interested in growing, selling and planting it.

What is your opinion of Hubbardston apple for home use, also for a market variety? Does it succeed over a wide expanse of country? What do you think of its quality?—B. Taylor, Pa.

Reply: Hubbardston is one of the very best apples for home use, because of its high quality, good size and general good behavior in the orchard. It is also an excellent market apple in many sections, especially in the north parts of the apple country, for it bears well everywhere and usually colors up well enough to look well in market. But it is seldom a very brilliant red. The fact that the fruit does not keep very late is somewhat against it.

How is it that peach orchards are being planted in New York state and Connecticut where formerly it was not supposed that peaches could be grown profitably for market? Do you consider peach culture profitable?—David Brown, Ohio.

Reply: People are learning by trial that many fruits will grow where they were before supposed not to succeed. Peach culture has been found to be profitable in the places mentioned and in Canada and northern Michigan, as well. Of course it pays to grow peaches in all these places; but good judgment must be exercised in the matter of special location or spring frosts or other undesirable climatic influences may be met. There is more uncertainty in growing peaches than apples but the returns are much quicker.

A subscriber at Petaluma, Cal., A. A. A., has a pecan tree fourteen years old, which blooms but does not bear and wants to know what to do with it. She suggests grafting some other variety on the tree.

Reply: This is a case that is like many others and it is quite true that pecan trees usually begin to produce male blossoms several years before the female flowers appear. The male flowers are long, green catkins that come out from buds set on the last year's growth, but the female flowers are to be seen a little later on the tips of the young shoots and are very small and indistinct. They are also very scarce for several years after they begin to appear. It would be well to wait until the tree has had a little more time in which to bear. Then, if it does not prove to be productive or the nuts are poor it can be grafted or budded.

Would Concord grape vines become more thrifty and productive by mulching the ground with sawdust? Also would a light cherty or gravelly soil be benefited by an application of sawdust?—J. B. S., Mo.

Reply—There is almost no fertility in sawdust of any kind, and it will not pay

to haul and spread it for the purpose of enriching the land for grapes or anything else. I once saw a very extensive trial of this and the farmer was thoroughly convinced that it did not pay to haul it from one part of his farm to another. As a mulch to retain moisture in the soil it is of some benefit, but there are cheaper materials that will serve this purpose and enrich the soil at the same time, such as the cow pea grown on the land. This will also loosen stiff soils and greatly benefit those that are gravelly or shaly. I would not bother with sawdust except a little for experiment, but try to get something rich into the soil.

Has anything recently been learned about woolly aphids? Does it infest the soil where trees are grown? Is it a serious pest?—A. D. C., Ohio.

Woolly aphid is a very serious pest of the apple orchards in many sections, especially in the Central West. It causes galls on the roots which are sometimes thought to be the result of the fungus diseases that are becoming so prevalent. But they are more often on the side roots than on the main ones and are bead-like in their arrangement. There is a form of the same insect that appears above ground, often in clusters on the trunks and looking like they were woolly, which is only a downy excrescence from their bodies. These insects infest the ground, but must have something to feed upon, which is always by suction, and apple roots are their preference. Tobacco dust worked into the soil will kill them, and it is worth all it costs for the fertility it contains.

If you were to plant four varieties of strawberries for home use and for market what varieties would you select?—David Cuyler, Mass.

Reply—That would depend very largely upon where they were to be planted. In Massachusetts nearly all varieties of the strawberry do quite as well as in any other section of the country. Of the old and well tested kinds there are none which succeed more generally than Haverland and Warfield. Splendid is one of the very good ones of later introduction and Clyde is another. Glen Mary is liked by many, but it has not been so thoroughly tested as those already mentioned. The first four would probably meet with more general satisfaction.

A reader, A. B. H., at Westminster, Mass., asks what is the best of the copper sulphate remedies for preventing pear scab.

Reply—While there are many kinds of mixtures sold for the purpose of spraying trees and fruit to prevent the ravages of the scab on the pear, apple, etc., yet sulphate of copper is the effective principle in all of them. So far as I know there is nothing better than the plain Bordeaux mixture when properly made. The time should be slaked slowly and by sprinkling with water and never by submerging it in it. It should then be fully diluted before mixing with the copper sulphate. The latter should also previously be well dissolved and fully diluted. This matter of fully diluting before mixing is a very important matter.

H. E. Van Daman.

The life of the early Romans was colored by their simple agricultural pursuits. Their gods were supernatural beings who had power over the processes of the earth, and their libations to them were milk and honey. Venus is said to have been regarded as the power which had control over gardens and orchards before she became the "fatal temptress Aphrodite" of "a later dispensation." Mars, for whom the first months of the Roman year, the budding month, March, is named, was the god of the grain field. His priests were called salii, or leapers. It was their custom to meet in Rome on the first day of the new year to dance and sing around the Palatine. They leaped to the limit of their powers, for it was believed that Mars would permit the new grain to grow to the height to which they leaped. Besides these, there were gods of corn, wine, fruits and flowers, and sylvan, or tree spirits. Saturn was the god of sowing and Flora goddess of the flowers.

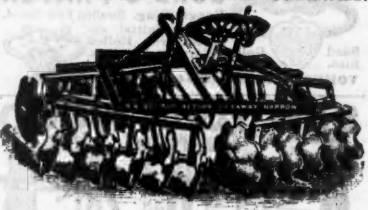
Kate—"They tell me that Fred has proposed to Minnie." Eva—"And we have always been led to believe that Fred was not a drinking man!"—Boston "Transcript."

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A Song in the Night.

The following remarkable poem is over 200 years old. It was written by an Italian monk named Campanella, who was born in 1568 in Calabria, Southern Italy:

The people is a beast of muddy brain,
That knows not its own strength, and
therefore stands
Loaded with wood and iron. The power-
less hands
Of a mere child guide it with bit and rein;
One kick would be enough to break the
chain
But the beast fears, and what the child
demands
It does, nor its own terror understands,
Confused and stupefied by bugbears vain,
Most wonderful! With its own hands
It ties and gags itself, gives itself life and
war
For pence doled out by kings from its
own store.
Its own are all things between earth and
heaven;
But this it knows not, and if one arise
To tell the truth it kills him unforgiven.

The speediest feminine picker of huckleberries in Monroe county, Pa., is Carrie Everett, a girl of 15 years. From 8.30 a. m. to 4.30 p. m., she picked seventy-two quarts of huckleberries. Oscar Altemose has the record among men and boys, as he picked 125 quarts of huckleberries in eight hours.

Helmholz showed that a wave of thought would require about a minute to travel a mile or more, and Hersch found that a touch on the face was recognized by the brain and responded to by a manual signal in the seventh of a second.

Lobsters cannot be persuaded to grow up together peaceably. If a dozen newly hatched specimens are put into an aquarium, within a few days there will be only a large, fat and promising youngster. He has eaten all the rest.

The microscopes of to-day will reveal a particle the half-millionth of an inch in diameter. The size of an atom may be judged when it is said that each of such particles probably contains at least six million atoms.

In Siam some of the women intrust their children to the care of elephant nurses, and it is said that the trust is never betrayed. The babies play about the huge feet of the elephants, who are very careful never to hurt their little charges.

Locusts are not the only migrant insects. In July, 1890, a swarm of small beetles passed over Romershof in Russia, which was two miles long, and one and one-third miles wide and over twenty feet thick.

There is a tree which grows in Sumatra, Algeria and China which is known as the vegetable tallow tree. From its fruit large quantities of oil and tallow are extracted.

Nothing is lost by patience. See how long it takes the good Lord to make a fair flower out of a little seed; and He does all quietly, without bluster. Wait on Him a little in peacefulness and prayer, and see what He will do for thee.—H. B. Stowe.

It is no small commendation to manage a little well; he is a good wagoner that can turn in a narrow room. To live well in abundance is the praise of the estate, not of the person.

Secretary Wilson, of the department of agriculture, says ten years ago the United States produced about 14,000,000 pounds of rice. This year we expect to produce about 300,000,000 pounds, so that we expect to have rice to sell to other countries.

Cranberry growing is being started on an extensive scale along the coast of Washington between Gray's harbor and Willapa harbor, and between Willapa harbor and Columbia river. Cranberry marshes also extend along the Oregon coast, giving a field for similar operations there.

The sense of smell in the snail has been found by Emile Yung to be limited, as a rule, to a distance of about six inches.

It is estimated that New York city alone has 150,000 persons who would be dead without the medical progress of the last fifty years.

The contested theory that pearls are due to a parasite in the oyster, was first advanced by Filippi in 1852. Several recent observers have confirmed the view.

A Glasgow museum is forming an important collection of railway material, intended to cover the period from the time when the Romans brought over the system of stone roads. Between sixty and seventy different exhibits will be included.

He who is skillful in art does not continue in slipper-making.—Turkish proverb.

Will Apple Growing Pay.

In speaking before an Illinois farmers' institute on the subject, "Will Apple Growing Pay?" Professor Hedrick of the Michigan Agricultural college said: The demand for apples in recent years has increased as has that of no other product of the soil. The value of most farm crops has gone down since war times, but the apple, which we shared with the pigs and cows forty years ago, is now a luxury which few of us habitually afford. Moreover we now ship apples in ways and to places never dreamed of a few years ago. We send them to Europe, to China, to the Klondike, and in ever increasing quantities. We ship them as green fruit, canned and evaporated, while the skins and cores are made into cider, vinegar and jelly so that nothing is lost or wasted. Six counties in Western New York are said to have received over \$5,000,000 for the apple crop of the last season. The figures of the apple industry for the last decade are a grand sight. They show that the home consumption of this fruit has increased enormously, while the export trade has more than doubled every year. The carload is the unit in trade now—formerly it was the wagonload. But will this wonderful growth last or is it one of the bubbles which periodically arise in the industrial world? If we study this question carefully and come to know wherein lies the growth and what manner of growth it is, we must conclude that apple culture has not yet reached its height and that the forward movement is gaining greater and greater impetus.

That the ancient Irish were sun-worshippers, and that they keep alive some remembrance of the pagan belief to this day, is beyond doubt. "Bonfire Night" in Ireland, under the influence of the Gaelic league is now celebrated in some places more in accordance with the traditions of Beltaine than has hitherto been the case. In ancient Ireland the Pagan Beltans were held on May Day, and all fires were lit from the sacred flame at Tara. In Christian times, instead of abolishing the Pagan festivals outright, their dates were altered and their purposes were, so to speak, Christianized.

What was the secret of such a one's power? What had she done? Absolutely nothing; but radiant smiles, becoming good humor, the tact of giving what every one felt and every one wanted, told that she had got out of self and learned to think of others.—F. W. Robertson.

With the Wits.

It being settled that hard work is the secret of success, the question now arises, what is the secret of hard work?—"Puck."

Governess—"Oh, Kitty, you careless child! There are not two r's in 'very.' Rub one of them out." Kitty—"Yes. But which one?"—"Punch."

Mr. Crouch—"Can't you stop that kid's howling? What's the matter with him?" Nurse Girl—"Well, sir, he was chased by a crazy man wunst, and he thinks you're him."—Chicago "Daily News."

"That young man," said the visitor, "behaves as if he knew more than you do." "Naturally," replied the merchant. "Why 'naturally'?" asked the visitor. "I am merely his father."—Philadelphia "Ledger."

Edyth—"George says he can't understand why I accepted him." Mayme—"George isn't like other people." Edyth—"Why, what do you mean?" Mayme—"Other people can't understand why he proposed."—Chicago "Daily News."

Sweete—See Marston hurrying home with all his might. So eager to see his wife again! How he must love her. Bitterworth—Perhaps he has thought of something mean to say to her, and is afraid he may forget it.—Boston "Transcript."

Mrs. Nextdore: "I guess you heard my daughter practicing to-day. The music teacher was there to-day; she's taking lessons by the quarter—" Mrs. Pepprey: "Indeed? I thought it was by the pound."—Philadelphia Press.

No man is in business for himself if he is married.

Happy is the girl who thinks her father is the best man on earth.

It is impossible for a man to help others without helping himself more.

Many a candidate for office is not as immaculate as he is whitewashed.

Responsibility is a coat which the man at fault thinks is a misfit on his own back.

Women laugh when they are in love for the same reason that cowards whistle—to keep up their courage.

A man is beginning to lose confidence in his theories when he is unwilling to listen to arguments against them.

Many a man will notice a decided coldness on the part of his annexed rib this winter if that sealskin sack is not forthcoming.—Chicago News.

YOU LOSE YOUR TEMPER
with a bad axe, but you don't draw temper while you grind eight times as fast as emery wheels on the electric diamond stone. Over 1,000,000 making 4,000 revolutions a minute with the **Bi-Pedal Sickle and Tool Grinder.**
For Sicks, Edge Tools, Saw Gummars and Polishing Machine, 4 in. dia. Special to Farmers. \$24 worth of machinery for \$2.50. Ten Days Free Trial. Return at our expense if not satisfied. Ask for beautiful free sample of carbide and booklet. Agents Wanted.
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\$4.25 buys our No. 100 single buggy harness, with over or side check, 1 in. traces, complete with one hitch rein. This and others described in catalog.
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\$6.95 buys our No. 107 single buggy or carriage harness, collar and hame style, with over or side check, 1 1/2 in. traces, complete with one hitch rein. Collar extra \$1.40.
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—A. E. Griffin, M. D., Stubblefield, Texas.
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—Miss Florence Cook, Webster City, Ia.
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—Irene Ackerman (famous singer), 30 West Fifteenth Street, New York.
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—Miss Clara Stimmel, 229 So. Sandusky Street, Delaware, Ohio.
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—Miss Mabel Allen, Clare, Michigan.
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Extra Premium. If you send us the money within one week after receiving the Doll, we will send with the Doll, six Gold plated Ribbons Pins, as an extra premium for prompt work. We take back all goods not sold. Address, **NATIONAL MEDICINE CO.** Doll Dept. 126 New Haven, Conn.

MOST POPULAR DOLL MADE

Cold Storage for Fruit Growers at Moderate Cost.

Written for Green's Fruit Grower by Madison Cooper.

The department of agriculture has, during the past two years conducted some extensive experiments to determine facts and methods regarding the handling and storing of fruits. Information of much value has already been secured in this way. Information before well known to the writer and others connected with the industry has been verified by the experiments and put in the form of plain statements of facts. It has been fully demonstrated that better results are secured by the placing of fruit in storage promptly when picked, and that fruit, especially apples, should remain on the trees until well colored and fairly ripened before picking for storage. These facts argue strongly in favor of the fruit grower operating his own cold storage. Professor G. Harold Powell, who has had the experiments in charge, says: "The local warehouse is ideal for quick storage and for the grower who is competent to handle his own crop. Capital has developed the warehouse business in the large cities, as it is more convenient to distribute the fruit from them and more economical to maintain a plant where a general storage business can be operated. 'But as the importance of quick storage at harvest time is more generally appreciated,' it will probably lead to a greater development and concentration of local storage houses and to a greater use and improvement of the refrigerator car service. . . . I believe that one of the developments that will take place in the future is the building of warehouses in the apple producing regions, and the distribution of the product from these warehouses in cooler weather." The part single quoted is used by the writer to emphasize the point under consideration, viz:— That best results and greatest profits to the grower can only be secured by placing the fruit in cold storage as soon as removed from the trees. This does not necessarily mean that the grower must have a cold storage house on his premises, although in many cases this is the best and most practical plan; but the cold storage house should be easily accessible in order to secure the best results. Many fruit growers are at present so situated that their fruit is packed in barrels and shipped by refrigerator car to the nearest storage point, requiring only two or three days in transit. Even this short time causes deterioration of some of the softer varieties of fruit, as the warm fruit going to the car cooled with ice only will not in all probability become cooled below 45 degrees or 50 degrees F. With a local cold storage the fruit requiring quick work may be cooled down rapidly to a temperature of 30 degrees F., thus improving its keeping qualities, and shipped out later in the season when outside temperatures are lower. Many times refrigerator cars are not available and the damage is then much greater.

As an instance of one of the benefits to be derived from home cold storage may be cited the barrel situation in the East during the past season. Barrels were impossible to obtain in sufficient quantity to take care of the crop at harvest time, and it is reasonable to say that many thousands of dollars were lost to the grower from this reason on account of deterioration of quality of fruit while lying in the orchards waiting for barrels. In many cases total losses occurred. Apples may be successfully stored without barrels; and trays and crates are regularly used for this purpose. They may also be stored in bulk, but this is not as good. A grower provided with suitable cold storage facilities does not have to wait for barrels. Apples to stand shipment long distances before placing in storage must be picked while still somewhat immature. The bothersome apple scald is increased by too early picking, as it has been shown by the experiments and by practice that mature, well colored fruit does not scald to any extent. On this score Professor Powell states: "The experiments indicate that so far as maturity is concerned, the ideal keeping apple is one that is fully grown, highly colored but still hard and firm when picked. Apples that are to be stored in a local cold storage house to be distributed to the markets in cooler weather may be picked much later than fruits requiring ten days or more in transit. . . . Therefore, to sum up in a general way, the results of the experiments which have been made seem to indicate that the ideal fruit for storage purposes is that which is taken from the tree to the warehouse in the quickest possible time, in order to prevent the fruit from consuming a large proportion of its own life history during the delay that may take place."

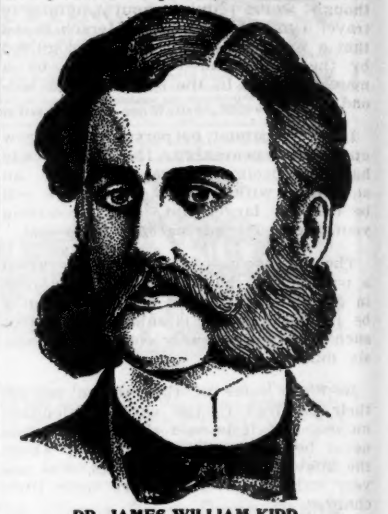
These are some of the benefits of home or local cold storage. Many instances could be cited where large profits have been made by placing fruit in cold storage for a time and selling when the market was comparatively bare, but these seasons are exceptions, and in going into a cold storage proposition, the grower should not expect more than a reasonable profit, amounting to interest and a fair remuneration for the risk assumed. One season with another, a good profit is certain if the business is as well handled as it should be, and none but a careful person of methodical habits will succeed in the operation of a cold storage plant. In the future the grower with modern cold storage facilities will have the advantage over his less progressive neighbor from the fact that his losses will be less and he will be able to place in the hands of the consumer a better preserved and more attractive grade of fruit. The question may arise as to the probable result of the erection of a much larger number of cold storage houses than are now in use throughout the section of the country where commercial orcharding is largely practiced, and also the probable result of the great increase of acreage of fruit bearing trees. The application of cold storage is still in its infancy. It cannot be said that its use so far has been in any way detrimental to the development of the industry, on the contrary, it has been a great benefit as fruit growers well know. If the development of cold storage has been beneficial in the past, why should not further development be beneficial? It may be true that the profits will not be as great in the future with more storage houses in use, but the profits will be more certain and regular. The old cry of overproduction has been raised in connection with fruit growing and storing, but with the country only half populated, growing fast, and with developing tastes and rapid improvements in transportation, over production is impossible. If there has at times been a temporary overproduction in the past, it has not been due to a surplus, but to lack of facilities in distributing and transportation. Commercial orcharding is rapidly expanding and cold storage will be necessary as an auxiliary. There can be no disastrous glut of the market when cold storage will absorb the surplus at harvest time and distribute it as needed by refrigerated transportation to the markets of the world. Nearly all of my readers will remember when the cold storage of apples was almost unknown—they were stored in basements, cellars or "fruit houses" without refrigeration. Probably a few of you are still doing this, but it is safe to say that not more than 30 or 40 per cent. of the fruit is so stored for temporary purposes, and this 30 or 40 per cent. would save money in improving the quality of the fruit by employing artificial refrigeration. Owing to the considerable investment necessary it is improbable that the construction of cold storage plants will ever be on a scale large enough to cause an over-supply of cold storage space, but the time will shortly arrive when practically all perishable goods will be handled in and sold from cold storage. Those who first provide themselves with cold storage will be the ones to be benefited largely thereby. The absolute necessity of cold storage at or near the orchard in order to secure the most perfect results seems unquestionable. What then should a modern cold storage plant consist of? The answer depends largely upon climatic conditions and extent and character of the crop to be handled. We will here consider only the needs of the comparatively small grower who will store say from 200 to 2,000 barrels. The use of natural ice for cold storing of fruit dates back thirty years or more. As has been pointed out repeatedly in the editorial columns of this paper and elsewhere, and as generally understood among the trade, the natural ice systems with which we are all more or less familiar have not been generally successful for the purpose. A few of these old systems are still in use, but practically none are being built at the present time. Most of the natural ice systems were arranged with ice above or at one side or end of the storing room. The air of the room was cooled by circulating in direct contact with the ice. The chief objections to these methods were found to be lack of control as to temperature and too much moisture in the air of the rooms. The lowest dependable temperature during warm weather was about 35 degrees F. to 40 degrees F., oftentimes higher. The moisture in the air was excessive at times, especially during cold weather when the temperature was lowest in the storage room. At the present time a temperature of 30 degrees F. is considered best for apple storage, and any apparatus which cannot produce this temperature cannot be considered for practical purposes as a modern system. Humidity also should be under control. It is for this

Wonderful Medical Discovery

Remarkable Remedies That Cure All Diseases

The Famous Doctor Discoverer and Scientist James W. Kidd Now Offers to Every Afflicted Person a Free Treatment

It has only been a short time since there appeared in the columns of nearly all the prominent newspapers of the world an announcement of the remarkable discoveries made by Dr. James W. Kidd. Physicians, scientists and professional men marveled at the wonderful cures which he performed with ease. Invalids who had suffered for years without hope were, it seemed, almost miraculously restored to health.



DR. JAMES WILLIAM KIDD.

The doctor was besieged by thousands of letters asking for information and assistance, until at last he determined to give his secret to the sick and afflicted of the world. Thousands have taken advantage of his liberal offer, and his mail is now flooded with letters of heartfelt gratitude from cured patients.

All Diseases Cured

Every disease to which human flesh is heir is represented in these letters, the so-called incurable diseases being as numerous as the less serious cases. A letter from Cliff Latimer of Loveland, Ohio, gives the details of his miraculous cure of Consumption as follows: "I had Consumption, was examined by four prominent doctors, one of whom a specialist made an examination of the sputa, and pronounced my disease pulmonary consumption, and told me that there was no hope. I weighed 120 pounds. Now I am well and strong. Every trace of the disease has left and I weigh 170 pounds. It has been over a year since I took Dr. Kidd's treatment, so I know the cure is permanent." Abraham Trauger, of Lambertville, N. J., afflicted with locomotor ataxia, a disease pronounced incurable by the medical profession, tells of his cure after years of suffering: "When I commenced treatment with Dr. Kidd for locomotor ataxia I could not walk across the floor. Since finishing treatment I have not lost a day from my work as foreman of the Lambertville Rubber Co." Thomas J. Halferty of Brimfield, Ind., writes as follows: "Dr. Kidd cured my son of a severe case of Bright's disease after he was passing large quantities of blood in the urine." The record of such miraculous cures would fill a book. Sufferers from consumption, Bright's disease, dropsy, paralysis, heart disease, locomotor ataxia and other dangerous diseases have been restored to health. The common chronic diseases, such as rheumatism, kidney trouble, catarrh, female troubles, bronchitis, epilepsy (fits), chronic coughs, lumbago, bladder troubles, scrofula, impure blood, skin disease, goitre, piles, bowel troubles, general debility, nervousness, lost vitality, contagious blood poison, etc., are cured in so short a time that it seems almost a miracle.

A Home Treatment

An important feature which recommends this wonderful treatment, rightly called "The Kidd's Life," is the fact that it can be used at home by anyone. The remedies are simple in composition, harmless to the most delicate system, but a secret known to no other living doctor.

Dr. Kidd's Honesty and Reliability

Three National Banks in Fort Wayne vouch for Dr. Kidd's reliability. Ministers, City and County Officials, Professional and Business Men all unite in giving him the heartiest endorsement. Fort Wayne is proud of her distinguished doctor. One and all say that his success is deserved by his ability, honesty and industry. To the doctor the good will of his fellow townsmen and the expressions of gratitude from the thousands to whom he has given the blessings of vigorous manhood and womanhood are sufficient to pay for the years spent in patient study and experiment. To make known to every suffering person in the world the fact that there has at last been discovered a treatment which will positively cure all diseases, he has made the following remarkable offer:

A Free Treatment

Dr. Kidd offers to send to every applicant a free treatment. There are no restrictions whatever. No matter what your disease, no matter of how long standing, or how many remedies or doctors you have tried, this treatment will cure you and it costs you only a postage stamp to find this out for yourself. The doctor's generous nature, his sense of fairness and his faith in his remedies are all clearly shown by this liberal offer. Nothing can possibly remove all doubts as quickly as actual trial. When this is offered absolutely free, every sick person should take advantage of it. You cannot afford to be skeptical when your health is at stake. In applying for free treatment give the doctor a description of your case or state what disease or diseases you want cured. You will receive the free treatment by return mail, postage paid.

To secure personal attention address the doctor's private office as follows:

DR. JAMES W. KIDD, 202 Baltes Block, Fort Wayne, Ind.

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Cutaway-Extension Reversible Harrow
A bonanza for fruit growers and orchardists. Also two-horse size for larger orchards. E. C. MENDENHALL, Gen'l Agt., Box 303, Kilmory, ILLS.



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Write for Catalogue. ITS FREE. Before ordering compare our prices on Buggies, Surreys and Wagons. 100 styles. Our prices talk. Buy Direct. Save Middlemans Profit. ROYAL CARRIAGE CO. 424 E. Court St., Cincinnati, O.

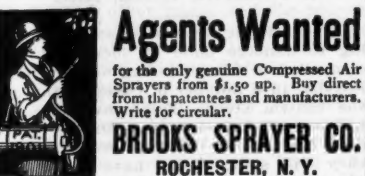


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for the only genuine Compressed Air Sprayers from \$1.50 up. Buy direct from the patentees and manufacturers. Write for circular.

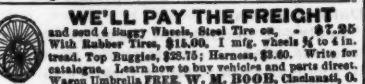
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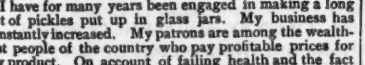
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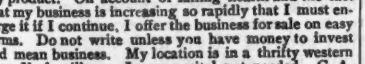
A complete line of nursery stock, Genesee Valley grown. No scale. Established 1889. Catalog free to interested parties. Geo. A. Sweet Nursery Co., 11 Maple St., Danville, N. Y.



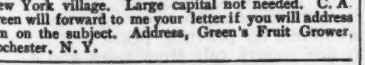
I have for many years been engaged in making a long list of pickles put up in glass jars. My business has constantly increased. My patrons are among the wealthiest people of the country who pay profitable prices for my product. On account of failing health and the fact that my business is increasing so rapidly that I must enlarge it if I continue, I offer the business for sale on easy terms. Do not write unless you have money to invest and mean business. My location is in a thrifty western New York village. Large capital not needed. C. A. Green will forward to me your letter if you will address him on the subject. Address, Green's Fruit Grower, Rochester, N. Y.



The Regal Grape, the Comet Currant, the Blowers Blackberry, the Kenoyer Blackberry, the Beaver Strawberry and a very large stock of Gladiolus Bulbs. Send postal for descriptions and prices.



5,000,000 Strawberry Plants



Brandywine. Also all other varieties. Plants best on market, cheapest to buy. Price per thousand. Read what one of our customers says: "I received the plants all O. K. and am very well pleased with them. ENOS HILL, Baden, Pa." This advertisement will not appear again. Write to-day and save money. Catalogue free. Lock Box 1.



STRAWBERRIES, RASPBERRIES, BLACKBERRIES, GRAPES, CURRANTS, GOOSEBERRIES, NOVELTIES, Etc. Buy your plants from us and we will catch your ground moles. Bait mole trap on earth free with every order. Our 60 page 1904 catalogue free. HUNTSVILLE NURSERY, Huntsville, Ohio. Please mention Green's Fruit Grower.

reason that the ice systems have come into disuse, and the ammonia or mechanical systems are understood to be the best. The advantages of simplicity and low operating cost when using ice for cooling, combined with the positive control of temperature and moisture obtainable with the ammonia or mechanical system, are all embodied in the gravity brine system, described further on. This system has not the disadvantages of complicated machinery, requiring skilled labor, as is necessary with the mechanical or chemical systems.

The buildings here illustrated are planned to meet the needs of those who have a crop large enough to make storing profitable. It is not recommended that a cold storage plant of less capacity than 200 to 300 barrels be built, except under special local conditions which might warrant a smaller capacity. The cost of constructing a very small house is greater in proportion as will be seen by the subjoined estimates. The cost of operating is also greater in proportion and the time and care necessary to make a success of a very small plant will operate a much larger one equally well. The relative cost of a plant of 600 barrels capacity and one of 1,500 barrels capacity are here figured with some degree of accuracy for average conditions. The operating cost would be in about the same proportion. The cost of building and operating a house of say 300 barrels would be more than half as much as the house here described for 600 barrels. It will be apparent that the extreme small house is not profitable under average conditions.

This article will be concluded in our next issue with illustrations of cold storage buildings.—Editor.

Mrs. L. Jennings' Notes.

For Green's Fruit Grower.

A hornet's nest was recently cut away from the limbs of an apple tree which measures 44 by 38 inches. In the top of the nest is an apple, on one side a large red Baldwin with the fibre of the nest built closely around it. A little below this is an opening in the nest for entrance, with winding passage inside. The insects had all vacated the structure. It is thought they go into the ground in winter for warmth and use the nest for breeding and a summer home.

To Cure a Felon.—As soon as you are convinced you have a felon, wet the parts a few times with iodine. Then spread a plaster the size of a penny or larger with sticking salve, leaving a vacant spot in center as large as a pea. Put a bit of spanish fly blister on the center, and bind it on felon. Let it remain until a blister is drawn. Then dress with cloth smeared with tallow until it heals and the felon is gone.

All things considered I am not sure but woman's susceptibility to flattery was as great in olden time as now.

A story is told of an old farmer who while doing his morning chores, was enjoying the beauties of nature as well. As he came into the house just as his wife had put aside the "tester" curtains to dress, and beholding the morning sun coming up in the East, he exclaimed with rapture, "Oh, the glory of the mornin' is risin'." "Yes, David," said the wife taking it as a compliment to herself, "but what would you think if I had my tither cap on?"

Asparagus.—H. L. Doan said that he set out asparagus plants in the spring. The plants are set out in ground which has been deeply plowed and fertilized; furrows are plowed out five or six feet apart, six or seven inches deep, and plants placed two feet apart in the furrows, covered with a few inches of soil, and as the plants grow during the season, the furrows are gradually filled up by cultivation. Says "Country Gentleman:" It is a good idea to use the space between the rows with some hoed crop the first season. When winter sets in, the asparagus is cut off and given a good covering of manure, which can be worked into the ground the following season. The asparagus is a gross feeder, and it is hard to overdo the treatment in fertilizing, as the larger and more tender the shoots, the greater the demand. In the early spring of the second year the surface of the ground is loosened by shallow plowing, and when the first shoots appear, the rows may be filled up to some extent, especially if blanched stalks are to be grown. A few shoots may be cut the second season, and the third season indiscriminate cutting may be done.

Diamonds.—The recent annual report presented to the shareholders of the De Beers Consolidated Mines shows that last year \$26,200,000 worth of diamonds were mined at Kimberley, South Africa, on which the profit was \$11,500,000.

Count the Potatoes and Win a Farm.



Only large black spots supposed to be potatoes. No small specks on cornucopias or illustration to be counted.

\$4,300 PRIZES GIVEN AWAY.

Every Correct Count Wins a Prize.
To those counting the correct or nearest correct number of potatoes in the above puzzle the following prizes will be given:
Prize for 1st Correct or Nearest Correct Count, a 40-Acre Farm - \$200.00
Prize for 2d Correct or Nearest Correct Count, a 40-Acre Farm, - 200.00
Prize for 3d Correct or Nearest Correct Count, a 40-Acre Farm, - 200.00
Prize for 4th Correct or Nearest Correct Count, a Beautiful Upright Piano, - 300.00
Prize for MOST COUNTS Received During Contest from one Person, 40 Acres of Land - 200.00
Time Cash Prize (estimated) - 200.00
Pocket Fountain Pen Prizes (estimated value) Distributed - 2000.00
Map of the World Prizes (estimated value) Distributed - 1000.00
GRAND TOTAL - \$4300.00

TIME PRIZE To the person sending the largest number of counts before March 1st, we will give \$1.00 a day from the time the first count is received until March 1st, 1904. For example, if you send in the largest number of counts and your first count is received 10 days before March 1st, you will receive \$10.00; if first count is received 100 days before March 1st you will receive \$100.00, so you see it will cost you \$1.00 a day for every day you delay.

MOST COUNTS To the person sending in the largest number of counts during the entire length of contest we will send a deed to 40 acres of land, as described here in, free and clear of all encumbrances.

EXTRA PRIZE Every person sending 50 cents for a year's subscription to the MAIL ORDER MONTHLY MAGAZINE and one count, will receive a beautiful three color Lithographed Map of the World—one of the latest made, instructive and useful. No home should be without it.

ADDITIONAL PRIZE Every person sending in \$1.00 for a two year's subscription to one time will receive a "Merchants" Pocket Fountain Pen, hard rubber holder, 14 karat rolled gold plated pen point, an article useful to everyone. IT PAYS TO SEND THREE COUNTS. With three counts you can send one number on each side of the number you have counted and the chances are one of the three will win.

REMEMBER Woman's Page and Farmer's Page, a Fashion Page, and lot of good things for the whole family including the Children, and is well worth the money. Send in your subscription and count at once. The farms we give as prizes are located in the heart of the potato and dairy district in Folk Co., Wisconsin, and will greatly increase in value as the soil is rich and fertile and this section is being well settled.

The piano is an upright, beautifully finished in mahogany case, fully guaranteed by the manufacturer. Should there be a tie of two or more sending the correct count the value of the prizes will be equally divided. The Mail Order Monthly Pub. Co. will pay the cash to winners if desired in place of any prize offered. In our former contest the following successful contestants each received a 40 acre farm in Wisconsin: Ole S. Jorset, Box 25, Sacred Heart Minn.; H. J. Toorle, Winnipeg, Minn.; Geo. E. Dues, 3005 Harris Ave., Minneapolis, Minn.; Martin Larson, Merrill, Wis.

No one connected with our publication will be allowed to compete. Contest will close May 31, 1904. No one your count reaches us early. The judges are some of the best well known professional and business men in the city.

JUDGES: J. W. Jenkins, Pres. Red River Valley Land & Loan Co., St. Paul, Minn., capital \$100,000.00; J. C. Jones, Ex-Cashier State Bank of St. Paul, capital \$100,000.00; Judge J. R. Blackburn, St. Paul, Minn., a member of the executive council of the Union Veterans' Union.

1 year's subscription, 1 count, and map of the world.....\$0.10
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It is the best thing in the world for the baby to feed itself with. Our grandchild has one. No baby can get on well without it. What more attractive gift can you make your own baby or your grandchild? We will mail, prepaid, this heavily silver-plated spoon with gilt bowl as a premium to all who send us 50 cents for one year's subscription to

Green's Fruit Grower.



workers that have made the Iron Age line of farm and garden implements known all over the continent. You can make more money this year than last if you will decide now to let them help you. Look at the good points of

IRON AGE IMPLEMENTS
Figure out how much time, work, seed, fertilizer, etc. you might save with a very small outlay, by buying the Iron Age implements you need. All the Iron Age implements have won their way by honest performance of every promise. Write for free Book.
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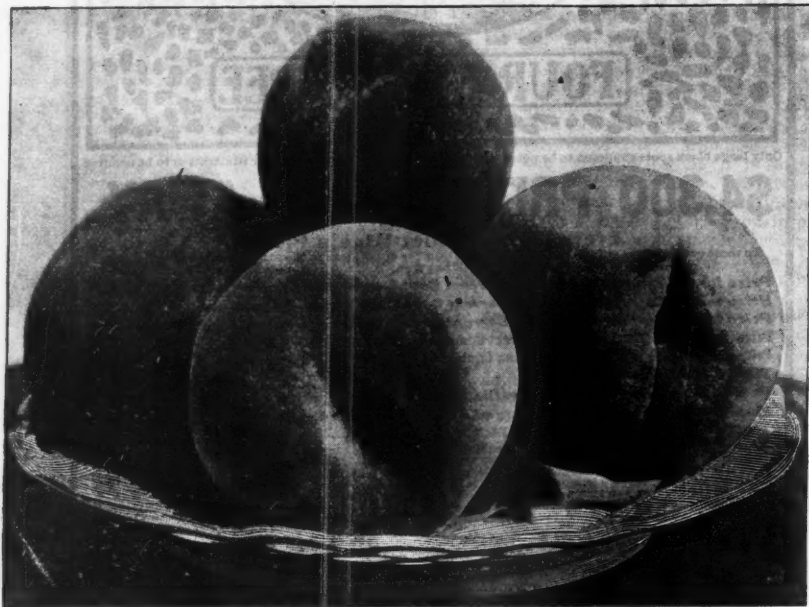
Please mention Green's Fruit Grower.

Green's Nursery Company

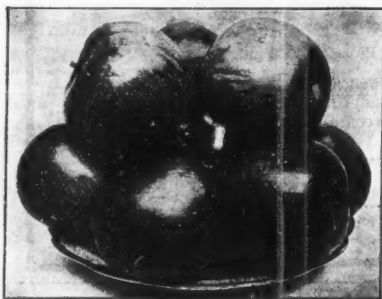
Offer in addition to our regular large sized Trees,

MEDIUM SIZED PEACH TREES AND BARTLETT PEAR TREES

Also, Small Sized Apple and Plum Trees FOR SALE at Low Prices.



Niagara Peach This photo-engraving represents three Niagara Peaches, on top of these three is placed one Elberta peach to show the comparative sizes of these two varieties. Niagara is the largest, most beautiful, and most profitable of all peaches. It has been called the improved Elberta. It ripens between Early Crawford and Elberta. Its foliage is large and leathery, and the trees are remarkable specimens of vigor. It is the great market peach in Western New York. **WE OFFER 10,000 3 to 4 feet NIAGARA PEACH TREES** at a low bargain price. These trees are well rooted, well branched, straight and nice, just such as we would like to plant for our own orchard.



Small Sized Apple Trees.

WE OFFER 30,000 apple trees 4 feet high, well branched, nice straight bodies and good roots at a bargain price and a large assortment of varieties.

Small Plum Trees.

WE OFFER plum trees 3 to 4 feet high, and assortment of varieties. There are many of the famous York State prune in the lot which we offer at a bargain price.

The York State Prune



Small Sized Standard Pear Trees.

We have several thousand Bartlett, Clapp's Favorite, Anjou, Seckel, etc., 4 to 5 feet high, on which we can make special low price. All these trees are in prime condition, bright and thrifty, such as would make desirable orchards. If you are thinking of planting, write us, stating what you want and how many and we will reply promptly giving prices that will surprise you. These trees are now in our storage cellars where they can be shipped any time during winter. Note that we have a full assortment of larger sized trees of all kinds as per free catalogue. Write us for prices.

Green's Nursery Co., Rochester, N. Y.



Our Correspondence.



In reply to a subscriber to Green's Fruit Grower I will say that native hickory nuts can be propagated by grafting but it is a difficult process, requiring considerable skill and experience. Grafting should be done in the spring before the trees have started to grow. No, I do not think that the seedling Spitzenberg apples will be more likely to produce good fruit than those of other well known varieties. Yes, these seedlings will do to graft other varieties on.

Peach in Tansy.—I have been advised of a peach tree forty years that is healthy and fruitful. It was found growing in a bed of tansy and it was assumed that the tansy was so bitter and objectionable as to keep away all troublesome insects, particularly the white grubs that work in the roots of peach trees. I give this information for what it may be worth.—Steven W. Losey, Ill.

Editor Green's Fruit Grower:—North-west Arkansas is a vast plateau of the Arkansas mountains with an altitude of 1,200 feet. We have vast territories liberally covered with apple and peach orchards, with strawberries, etc. The strawberry does particularly well here. No injury to fruit so far by the cold weather. An abundant crop is expected next year. Thousands of acres are being planted to peach and apple each season. Three berry associations near here have twenty-six hundred acres of strawberries ready to bear fruit and all are looking well and promise an abundant yield of fruit. Elberta peach is the leading variety for commercial uses. Ben Davis apple is the leading money maker in apples yet we have other varieties which have attained prominence.—J. B. Lea.

Leo F. Spayd of Indiana has an opportunity to lease an apple orchard embracing 140 trees and a pear orchard of 65 trees. These orchards are filled with briars and brush and have been neglected. He asks "What can I afford to pay per year for the lease of these two orchards?"

Reply: It is impossible to give an intelligent reply without seeing the orchard and its location. You do not state the age of the trees nor whether the land is low or on the hill-sides or hill-tops. The record of the orchard in bearing fruit during the past twenty years should be a guide for you. Even then I should prefer to plant my own orchard and give it good cultivation from the beginning rather than to clear out the brush and to attempt to renovate an old and neglected orchard like this. Orchards located on low and wet land cannot be made productive or profitable as a rule. You do not state what varieties of apples and pears these orchards contain. Everything depends upon the varieties. If the owner of this orchard has a good thing he would not be likely to lease it for any price that you would be willing to pay.

OUR FORESTS.

Editor of Green's Fruit Grower:—Do we love and appreciate our forest trees as we ought? There is something attractive and majestic about a large, tall, symmetrical tree. A tract of good sized timber is a valuable part of any farm. Our forests are growing less in area every year which ought not to be, and would not if proper care were taken. Various states have recognized this and have bought large tracts of lumber-land which are held as forest reserves. No tree ought to be cut until it has reached its maturity which is shown by its diminished growth and signs of coming decay. If this were followed instead of the greedy policy of cutting everything clean regardless of its condition the supply of timber would not be diminished and higher in price. Many who advocate the clean cutting of deciduous trees think little of it, expecting the second growth to come on and be ready for cutting in twenty-five or thirty years and so on. The second growth will come on unless the young shoots are eaten off by the cattle, or the stumps have no vitality, but this growth seldom amounts to more than firewood.—Wesley N. Peck.

Can a City Clerk Make Money on a Farm?—A subscriber to Green's Fruit Grower living in a large city, forty-one years of age, who has spent all his time in an office as a clerk, asks if he can make money by moving onto a little farm intending to raise mushrooms, squabs, ginseng, poultry, fruit, etc.

My reply is that no one can answer this question since everything depends upon the man and his ability. Some

men could succeed after making this very serious change, but very many could not. I know from experience that city men have a feeling that they want to live in the country but often when they try the experiment they are disappointed, or their wives or children are dissatisfied with the isolation of farm life, and further than this, they usually find profits small in the enterprises they undertake, as compared with city profits, but expenses are largely reduced. The profits of people who live on farms are small and the owners must be very economical in order to make any profit, at least on the start. If an old and experienced farmer has difficulty in making a profit on his farm how difficult must it be for a city clerk who has never had any experience on a farm. Therefore I hesitate about advising clerks who have good positions to give them up with the idea of going on a farm, though I did this same thing myself and succeeded, but remember that I was brought up on a farm and had considerable experience there before I went into the banking business in the city.

A Great Peach Section.—I have subscribed for Green's Fruit Grower ever since it was first published, twenty-three years ago. It is so good that I would not know how to get along without its regular visits. I get many valuable ideas from its interesting pages in regard to fruit growing and other subjects. I am a fruit grower. This locality is becoming a great fruit section. There were shipped from near by points over 22,000 bushels of peaches and yet we consider this only a partial crop. There were large shipments of apples also. Peaches grow here to perfection. The leading varieties are Elberta, Crawford's Late, Chilli, Golden Dwarf, Smock, Kalamazoo, New Prolific, Barnard and St. John. The varieties of apples are Baldwin, Spy, Ben Davis, Hubbardston, Bailey Sweet, Wagener, Roxbury Russet.—O. F. Marvin, Holton, Mich.

Green's Fruit Grower:—Last year, owing to damage done by locusts, I was compelled to trim a young orchard very heavily, in a number of cases taking out the central stem. This leaves a large number of forked trees. Unless remedied, when they commenced to bear, they will split. Trees have been out about four or five years. Query: Can I by intertwining branches from the two forked stems or by any other system remedy the evil? Again, in trimming trees so as to cultivate beneath them, the lower limbs have been removed. This has caused the tops of my pears, apples, and peaches, to run straight up. They are getting too tall. Can I with safety cut off the top branches? If so, to what extent, and at what season? Kindly answer next issue, and oblige. M. F. Dunn, Indiana.

Reply:—I should not have confidence in your plan of intertwining branches to avoid the splitting of forked branches of your apple and other trees. I should cut out, as soon as possible, all the crooked branches providing there were enough of the others on the trees. I do not think you will have any trouble with these trees making a good orchard if you trim them with care and do not allow too many branches. Three or four main branches are enough for any one tree.

A TWENTY ACRE FRUIT FARM.

Editor of Green's Fruit Grower:—I am thinking of buying a twenty acre farm to be devoted to poultry raising and fruit growing. Have grown all the small fruits in a small way; we have a cow, pigs, chickens and a horse. I have taken premiums on peaches, pears and grapes at our county fair from trees and vines bought at Rochester, N. Y., but have no extensive experience in fruit growing. I wish to begin on a small scale as my capital is limited. How can I plan this twenty acres less two acres set apart for the wood lot, so that one person can do all the work except at fruit picking time? How much ought an industrious man make from twenty acres devoted to poultry and strawberries?—Subscriber, Indiana.

Reply:—Fruit growing and poultry keeping go well together, and yet you would have to keep your chickens confined during the season of picking strawberries or they would consume much of the fruit. Much can be accomplished on a farm of ten or twenty acres. Since you desire to do most of the work yourself you should not plant over an acre or two of strawberries at the start. You do not say much about your soil or whether it is high or low

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land. If it is very low land late frosts may injure the strawberries occasionally. I should prefer up-land or rolling land and yet some of the largest strawberry crops are grown on low land. Be careful not to expend all of your money in buying the land since the strawberries will bring no money the first year. You might need a surplus fund of money to carry you through the first year or two. It takes time to start any enterprise. Unexperienced men often overlook this fact and therefore get into trouble. When I left the bank to begin fruit growing I was not surprised to learn that I could not get much revenue from my fruits until the second or third year. The revenue increased each year after that. You are in a good state and near a good market. I think you will succeed with economy and careful planning. You have my best wishes. How much you will make each year will depend on your ability to plan and manage.

Editor Green's Fruit Grower: I am a subscriber and have just read your issue for January and I like it very much, though the advice regarding fruit growing is not applicable for this part of the United States. A little note in the December number saved me many dollars. It was regarding the combine of crate dealers. This information made me look the matter up and consequently placing my order for 2,000 crates with a dealer not in the combine saving 2c per crate.

The money crop in this section is pineapples. We raise from 300 to 400 crates per acre. Last season we netted after freight and commissions were paid, \$1.35 per crate and from \$400 to \$750 per acre.

One man can care for five acres in good shape after they are planted once as after being planted they bear continuously for years if fertilized at the rate of from one to three tons of fertilizer per year. Wages \$1.50 per day of ten hours. Our soil is poor, deficient in almost everything of fertilizing value but the growers are getting wealthy fast.

I remain, Very truly yours,
R. L. Goodwin, Florida.

Will the fight necessary to keep off aphids and other pests, and the scarcity of apple seedlings this year cause an advance in the price of tree plants and vines?—Peter Widner, Ohio.

Reply—Apple seedlings are high now and will be higher before the grafting season is over. Also, people are becoming more critical as to the aphids, crown gall, etc., on tree roots, as they learn what they are and how to detect them. This will force nurserymen to be more particular about the stock they send out. Labor seems to be a very dominant factor, and is becoming more and more so. All these things will force the nurseryman to ask more for his stock and the planter will have to foot the bill, or the nurseryman cannot continue in business. It should be remembered that it is not the original cost of a tree or plant that is the expensive part of it but the care of it and the time that must elapse before it becomes profitable. The cheapest tree that one can get is a good one and true to name, even if the price seems high at the time of purchase.—H. E. V. D.

A quiet home; vines of our own planting; a few books full of the inspiration of genius; a few friends worthy of being loved, and able to love us in turn; a hundred innocent pleasures that bring no pain or remorse; a devotion to the right that will never swerve; a simple religion empty of all bigotry, full of trust and hope and love—and to such a philosophy this world will give up all the empty joy it has.—David Swing.

"Who was the poor wretch that the mob tarred and feathered, rode on a rail, horsewhipped and threatened to lynch?" "Why," said the leader of the mob, "that's the fellow who wrote to the papers that the citizens of this town had no respect for law and order. We showed him that we were law-abiding citizens, you bet!"—Tit-Bits.

"I am always glad to have you play with Johnny Upjohn. He is a good little boy, and I know you won't get into mischief when you are with him. What were you playing, Tommy?" "Bandits, mamma. He was a murderer in a cave, and I was a detective, and we was shootin' at each other with wooden guns."—Chicago "Tribune."

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What to Do Next.

Decide now what you are to do this spring in the way of setting out plants, vines and trees.

Do not delay sending in your order to the nurseries for such plants, trees and vines as you intend to plant.

Make a wise decision as to what varieties and how many of each variety you will plant.

In making out your order for the nursery write plainly with pen and ink and write your name and postoffice address, adding your county, before beginning the order. Many letters containing orders are lacking in the postoffice address or the name of the sender.

Garden and field seeds should be ordered now of the seed-houses. It seems natural for people to delay this important matter until the last moment, and then they desire speedy attention from the parties ordered of, which at that late date may not be possible.

In sending money for nursery stock or seeds it is safer to send postal money order, express order or bank draft.

If you have large orchards you must begin pruning now in order to get through that work before the leaves open. If you have only a few trees I should prefer to prune them just before the buds open in May.

Grape vines, raspberry, blackberry and currant bushes, etc., can be trimmed any time between now and the first of May.

Manure can be hauled at this season and spread directly upon the field from the wagon, or it can be piled up to rot. There is less loss where it is spread upon the field as drawn.

Prepare now a supply of fire wood and kindlings for the busy season coming.

Look over your farm harness, wagons and machinery and make all needed repairs at this season of leisure.

Look over your buildings and see whether any of them leak, or whether a board is needed here and there or a new plank in the floor.

Exercise the horses that have been standing in their stables without much work.

Clean out the poultry houses and carefully inspect them for lice.

Talks About Bugs.—Professor Steadman told of the insects which have been most numerous during the last season. The ones which were most numerous were fruit tree bark beetle, apple aphids and canker worms. The first-named insect attacks diseased and weakened trees, making a hole in the bark, the larvae burrowing beneath the bark. In a short time the insects will be very numerous, and the tree is often completely girdled by these insects working under the bark. Healthy trees are seldom affected, and the reason the insects have been so numerous lately is that the trees were weakened by the drouth of 1901. The apple aphids appear in spring, while the leaves are very small. They belong to the sucking class of insects and are killed by spraying with kerosene emulsion or with a 10 per cent. mixture of kerosene and water applied by one of the pumps which mechanically mix oil and water.

Canker worms are hard to kill when they attain their full growth, but when trees are well sprayed with paris green, when the insects first appear, it is a comparatively easy task to rid an orchard of this pest.

Professor Steadman said that arsenate of lead has lately proved to be the best insecticide. It can be made by the orchardist, although this is not recommended, and can also be purchased ready made under the trade name of Disparene.

Even the Mortgage.—"The last cyclone we had was the best ever. Why, it struck my farm and lifted the house into the next state, blew the barn into the country three miles away, swept the land clean of fences and all the other buildings and didn't leave me anything but my cyclone cellar."

"Lifted everything off, in short," remarked the man who likes to work over ancient jests, "except the mortgage." The Kansan smiled. "Took that, too," he replied. "Drove a fence rail into one corner of the barnyard and struck an oil well that put me on velvet for all time to come."—Cincinnati Times-Star.

Removal of Warts.—To remove a wart, pour on it a drop of vinegar, and then cover it with as much carbonate of soda as the vinegar will absorb. Keep it on ten minutes, and repeat the application twice or thrice daily. In a few days the wart generally drops off, leaving only a tiny white mark.—McCall's Magazine.

"Papa, is Santa Claus a really?" "Why, certainly." "Papa is it true wot th' Bible says about Ananias?" "Of course, Willie." "Say, papa! You must have a wonderful constitution!"—Bath News.



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Big Fruit Crops always follow spraying done with the wonderful

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That's because they work with such a high pressure that the fog-like spray is forced into every hole and corner, and it stays there. These big-grade machines cost no more than the inferior kinds. Yet the results are so much more satisfactory.

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Special arrangements have been completed whereby Green's Fruit Grower is able to present to its readers some great combination offers on papers and magazines for the coming year. We name a few below. If you will send us a list of any others you require we would be pleased to quote figures on same.

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Woman's Home Companion,
Housekeeper Magazine,
Vick's Family Magazine,
Green's Fruit Grower.

All four papers one year for \$1.25. Publisher's price, \$2.60. See other liberal offers on another page.

No. 2.

Housekeeper,
Poultry Keeper,
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All five papers one year for \$1.25. Publisher's price, \$2.60.

No. 3.

Reliable Poultry Journal,
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All four papers one year for 80c. Publisher's price, \$1.60.

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American Poultry Advocate,
Housekeeper Magazine,
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No. 5.

Farm Journal,
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All three papers one year for 60c., the value of one. There are others nearly as liberal on another page.

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American Poultry Advocate,
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No. 7.

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Take a piece of No. 18 wire and coil it firmly around an inch rod or iron, as shown in figures 1 and 2. Try to pull the coil out of it. You may think you have done so, but upon releasing, it will assume shape shown in figure 3. Then look along the wire as you would a gun barrel; it will appear as shown in figure 4—has the appearance of a tube. This explains the great advantage of COILED SPRING WIRE and how it provides for contraction and expansion. The weave of our fence is so perfect that full strength of every wire is preserved. Every twist is an expression of strength. Good enough to last a lifetime. We make it.

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Here's a variety of corn every farmer will do well to test; a corn productive of both ears and stalk; a corn that is high in quality, early in growth; no barren stalks, every stalk an ear, many two or three ears; stalks leafy, tender, sweet. Produces a paying crop when other varieties would be grown at a loss. This year's seed is fine. Pk. 60c; bu. \$2.00; 10 bu. or more \$1.75 per bu. Our catalog is full of flower, and seed seeds. It is free. Corn manual free.

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Younger, & I have not gained an ounce since. Purely vegetable. No harmful or water. Any one can make it! (See all the evidence.)

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Profit in Poultry.

Is there anything on the farm that pays better than poultry or the hen? asks the Epitomist. Some say that there is no profit in poultry, but this depends upon who is in the business. In many homes the poultry money clothes the children and gives the farmer's wife many a necessity that otherwise she would be compelled to go without. Often the hen on the farm is greatly neglected and has to pick up her food wherever she can find it, yet she attends strictly to business and gives one an idea of her value when carefully attended to. In many of the poorer homes eggs are all the money the families ever see, and these are exchanged at the small stores for necessities. A few years ago it was almost impossible to get cash for eggs in the country, but now there are regular poultry agents who pass over all the leading highways paying the highest market prices for poultry and eggs. When one gives time and study to poultry it pays wonderfully, and some go so far as to say that the hen is the greatest wealth producer in America. However this may be, it is certain that more attention is being given to poultry than ever before. There are many who use eggs as a substitute for meat, and there will always be a demand for them no matter how much the price varies with the season, and as the highest prices are realized during the holidays one ought to manage so as to have the pullets come into laying at that time. Neither the old fowls nor the pullets will lay during severely cold weather, however, unless given the warmth they require and the proper food.

Practical Poultry Points.

The best form of lime for poultry is oyster shells or mortar lime. Grit should be in the pens at all times.

If cement floors are used, place three inches of earth on top.

Hens that have full liberty will give more fertile eggs than those that have not.

You will get stronger eggs from old hens, but make your pullets do the winter laying.

In feeding for eggs, feed grain in the morning, to make the hens exercise, mash in the middle of the day, and a good grain feed at night. Use the animal food with the mash, and place the vegetables and the grit in the pens. If you follow this course, hens will lay in winter.

Stick to Pure Breeds.—One of the worst features of the poultry business, says "Maine Farmer," has been the craze for something new, leading the breeders into a realm of discontent where they are all the time attempting something new. One of the worst mistakes is that of crossing pure breeds, because these breeds, as a rule, have been built up through patience and energy for a particular line of work and crosses are sure to injure rather than help. In fact, the meanest mongrels to be found are those which are the result of crossing two of our best breeds. Better by far select the breed you like best and then stick to it, improving it, weeding out the inferior birds and breeding always from the best and selecting the males from birds that have descended from great producers. In this way we build up.

Suggestions on Pruning.

The following suggestions on pruning are made by Professor Maynard, of the Hatch, Mass., experiment station:

"1. The knife or saw should never be used on fruit or ornamental trees unless there is good reason for so doing.

"2. Train all trees while young with a central leader or main shoot, and never allow two main branches to grow in such a way as to have the weight of the tree come upon a fork of the main trunk.

"3. When branches cross so as to be injured by rubbing together the weaker of the two should be cut out.

"4. When one branch rests on another under it the weaker of the two should be cut out.

"5. Suckers or water sprouts should be thinned out before they have made much growth, but if the main branches are bare, or if the head is open in places, suckers should be allowed to grow where they will cover this condition.

"6. If large branches are to be removed make the cut in the middle of the enlarged part where it joins the main branch or trunk and not quite in line with the face of the main branch or trunk.

"7. Paint all wounds above one-half inch in diameter with linseed oil paint, gas tar or grafting wax.

"8. Never cut away the main branches of a tree, if it can be avoided, but thin out the head when it becomes crowded from the outside. This can be quickly done with a pruning hook on a long pole,

and little or no injury will result, while if the large branches are cut from the trunk the tree is weakened and soon dies or is broken down.

"9. Cut off dead branches as soon as discovered and cover the wound with paint to prevent further decay.

"10. In training young trees start the branches low; the trees will grow better, the thinning and gathering of the fruit will be more easily done and the cultivation can be well and cheaply done with the modern harrow and weeder as if the head were higher, while the trunk of the tree and the ground under it will be so protected that the growth will be better than if more exposed."

"I thought she was going to marry an English duke."

"No. Her father found a Russian prince that he could get for half the price."—Chicago "Record-Herald."

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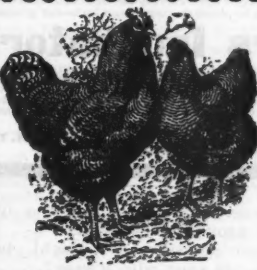
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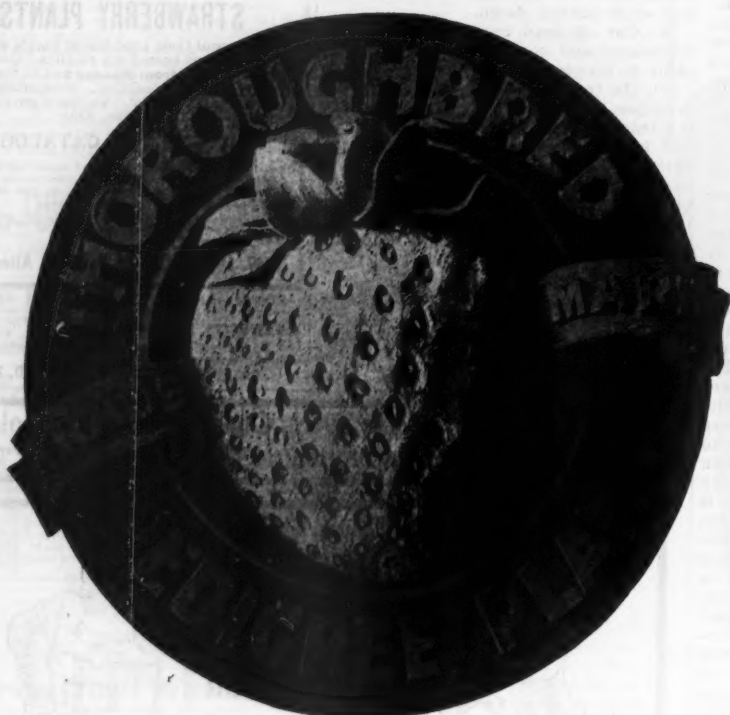
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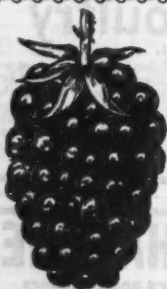
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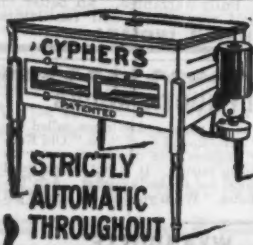
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Stranger—Say, can I get a divorce
on the grounds of insanity?

Lawyer—Possibly it might be ar-
ranged. Is your wife insane?

Stranger—No, but I must have been
crazy when I married her.

Muggins—When I was in Paris last
summer I had the time of my life.

Wiggins—Why, I was there with my
wife summer before last and didn't en-
joy it a little bit.

Muggins—No, of course not.—Chicago
News.

"I see that Professor Langley's air-
ship is to be used in warfare," remarked
the man in the end seat of the open
car. "I suppose it could be utilized in
that way," thoughtfully observed the
man behind him, "if the enemy could
be coaxed to wait around until it fell
upon them."—Cleveland Plain Dealer.

Call it happiness or call it blessedness,
the life whose end is righteousness is a
life which satisfies, and which one is not
only willing but glad to live; its ways
are ways of pleasantness, and all its
paths are peace.—Rufus Ellis.

Professor C. S. Crandall of the Uni-
versity of Illinois confined himself to
such fruits as could be grown in Illinois,
as raspberries, blackberries, currants and
gooseberries, says "Country Gentleman."
Of the European raspberries a good many
varieties were grown thirty or forty
years ago, but were now almost entirely
discarded on account of being subject
to disease, and those that are now grown
are native specimens. These bush fruits
should not be planted on sod land, but
the land should be cultivated in a hoed
crop for a season before planting either
raspberries or blackberries. Care should
be taken in transplanting to take the
plants up and transfer them to the plant-
ing place without exposure. The best
time for setting out the red raspberry
is in the spring, choosing shoots that are
from four to six inches high, taking them
up with a ball of earth around the roots,
and putting them in their permanent
resting place with as little disturbance
of the roots as possible.

He had risked his life to rescue the
fair maid from a watery grave, and, of
course, her father was duly grateful.

"Young man," he said, "I can never
thank you sufficiently for your heroic
act. You incurred an awful risk in sav-
ing my only daughter."

"None whatever, sir," replied the am-
ateur lifesaver. "I am already mar-
ried."—New York Sun.

She smiled down at the happy boy.
"I suppose that new moustache is
very dear to you?" she said.

"Yes," he admitted.

"It ought to be marked down," she
said—and there was a perceptible em-
phasis on the "down."—Cleveland Plain
Dealer.

"They say," said Mrs. Oldcastle, "that
Mr. Faddethwaite, who user to belong
to our church, has become an agnostic."
"Is that so? Josiah used to take his
lunch at the same place he did down-
town, and he says he often warned him
that he'd get it if he didn't give up eatin'
so fast."—Chicago Record-Herald.

For to travel hopefully is a better
thing than to arrive, and the true suc-
cess is to labor.—Robert Louis Steven-
son.

The United States ranks sixteenth as
a wine producing country. Our annual
output is but a fiftieth of that of France.

Count Nottapenni—"Las' night I giva
ze leetle heent to Miss Roxley zat I vould
lika she should marry wiz me." Ascum
—"And did she give you any encourage-
ment?" Count Nottapenni—"I do not
know. She simply say to me. 'What
kinda ze nerve food do you use?'"—
Philadelphia Press.

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tastes and will cure this dreadful habit, quietly and permanently without the
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